



International Conference and List of Publications

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Project Funding

Project Full Title: **Developing an Interdisciplinary Minor in Climate Change and Sustainability Policy**

Project Acronym: **CLIMASP**

Project number: **543879 TEMPUS-1-2013-1-GR-TEMPUS-JPCR**

EC Programme: **TEMPUS**

Agreement number: **JPCR (2013-2013-5043/001-001)**

Start date: **1st December, 2013**

Duration: **3 years**

Budget: **1 246 635 €**

Executive Summary

This deliverable concerns the presentation of the final consortium meeting that coincided with the international symposium as well as the scientific papers on CLIMASP that were published in international journals as well as the key publication used for disseminating the CLIMASP project and its outcomes. The international symposium was held in Greece with the participation of all consortium institutions. More than 50 CLIMASP key staff from the partner institutions attended the final meeting and symposium. Besides that this event was reached by more than 500 people of different backgrounds. In these events the major results of the CLIMASP project were presented and popularized through various media means. In the following, we present the agenda of the symposium, the published scientific papers in a highly esteemed international journals, examples of CLIMASP guides published, flyers, posters, etc.

**CLIMASP FINAL MEETING AND SYMPOSIUM
23-25 September, 2016 Oasis Hotel Glyfada Athens**

Thursday 22 September, 2016	
RECEPTION AT THE HOTEL 21.00 pm	
Friday 23 September, 2016	
09:00	Departure to Lavrion City*
10:00 –	Arrival to the Lavrion Center of Environmental Education Opening Ceremony
10:00-10:15	Welcome speech and presentation of the Lavrion Center of Environmental Education by Maria Kagiafa, Head of the LCEE
10:15-10:45	The Lavrion City: A Historical Journey by the Pedagogical Team of the LCEE
10:45-11:15	The CLIMASP Programme: From the Start to the End, Prof. Vassilis Makrakis-Project Coordinator
11:15-11:30	Discussion
SESSION 1: CLIMASP CASE STUDIES PRESENTATION AND DISCUSSION (Session monitoring by Dr. Aravela Zachariou, Frederick University, Cyprus)	
11:30-12:00	Jerash University CLIMASP Case (Presented by Prof. Ali.Sharafat & Prof. Mysaa Ata)
12:00- 12:30	University of Jordan (Presented by Prof. Ahmed Suleimah)
12:30 – 13:30	Lunch
13:30-14:00	Hashemite University (Presented by Prof. Theodora De Baz)
14:00-14:30	American University of Madaba (Presented by Prof. Fares Khoury)
14:30-16:00	A Tour in the Technological Park of Lavrion by the Pedagogical Team of the LCEE

16:00	Departure to the Ancient Temple of Poseidon in Sounion
16:30-17:30	A visit in the Temple of Poseidon (Narration by Dimitris Gkatzos & Katerina Vigkou)
17:30	Departure
20:30 –	Dinner at the Hotel

Saturday 24 September, 2016

SESSION 2: CLIMASP CASE STUDIES & EXTERNAL EVALUATION

(Session monitoring by Prof. Gerd Michelsen & Prof. Maik Adombent, Leuphana University, Germany)

9:00-9:30	Heliopolis University (Presented by Prof. Omar Ramzy)
9:30-10:00	Aswan University (Presented by Prof. Ahmed M. Elotify)
10:00-10:30	Suez Canal University (Presented by Prof. Nehal Lotfy)
10:30-11:00	Port Said University (Presented by Prof. Mahmoud Mohasseb)
11:30 – 12:00	Coffee Break
12:00-12:30	American University of Beirut (Presented by Prof. Jean Chatila)
12:30-13:00	Notre Dame University (Presented by Prof. Nancy Kanbar)
13:00-13:30	External Evaluation Results (Presented by Prof. Michele Biasuti, University of Padova, Italy)
13:30-14:00	Final External Evaluation Plan (Vassilis Makrakis & Dr. Alexandros Antonarakis, University of Sussex, UK)
14:00 – 16:00	Lunch
21:00 –	Dinner at the Hotel

Sunday 25 September, 2016

SESSION 3: ACADEMIC, FINANCIAL AND ADMINISTRATIVE ISSUES

(Session monitored by Prof. Nelly Kostoulas-Makrakis)

9:30-10:00	Preparing for the final finance audit (Vassilis Makrakis- Project Coordinator)
10:00-11:30	Reporting and discussing possible mistakes: Whole group participation monitored by Nikos Larios
11:30 – 12:00	Coffee Break
12:00-12:30	Discussion on final CLIMASP deliverables
12:30-13:00	Closing with final evaluation of the CLIMASP workshops and symposium
13:00 – 15:00	Lunch
Monday 26 September, 2016 POST-SYMPOSIUM MEETING	
10:00 - 13:00	This meeting is optional and concerns participants and institutional coordinators who stay after the ordinary symposium days.

*The journey to the City of Lavrion will cost 20 Euro for each participant

CLIMASP Partners



<http://www.climasp.edc.uoc.gr>



Coordinating Institution and Grant Holder

University of Crete
Faculty of Education
Dept. of Primary Education
 74100 Rethymnon, Crete, Greece

UNESCO Chair
ICT in Education for Sustainable Development
 Chairholder: Prof. Dr. Vassilios Makrakis
 University of Crete - Faculty of Education
 Department of Primary Education

<http://www.edc.uoc.gr/unescochair/>



<http://www.edc.uoc.gr/unescochair/rcrete/>



Tempus



Development of an Interdisciplinary Programme in Climate Change and Sustainability Policy



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Funded by the European Commission
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 Grant Agreement No. 2013-5043/001-001
 December 2013 - November 2016

- Developing a minor in Climate Change and Sustainability Policy will offer students the necessary knowledge, skills and attributes to tackle the challenges of climate change and turn them able to act as agents of change locally and globally.
- Choosing a minor combined with a major degree it gives students the opportunity to pursue a second area of interest that can open significant career opportunities, besides building knowledge and skills in an area that fulfils their personal interests.



CLIMASP Objectives

- Develop capacity-building programmes to train university teaching staff and key administrators for interdisciplinary collaboration and building partnerships with local/national/regional partners.
- Involve university staff and other key stakeholders (e.g., students, professionals) in the development of an undergraduate interdisciplinary programme in CLIMASP in each partner country university.
- Integrate and implement the CLIMASP programme as an integral part to existing undergraduate academic degrees in disciplines such as education sciences, applied sciences, technical sciences, economics/business sciences, and social sciences; and
- Monitor, evaluate and review the CLIMASP programme in each partner country institution.



Key Components

- Adopt a multi-stakeholder perspective in course curriculum development.
- Develop guidelines for strengthening stakeholders' inputs in the CLIMASP curriculum development and implementation.
- Organise and carry out three national and two regional training workshops.
- Develop online toolkits to provide continuous training support and resources.
- Develop, validate and accredit 240-300 interdisciplinary course syllabi and course modules.
- Develop 10 Euro-Arab Centres for Interdisciplinary Studies and Climate Change with an ICT Laboratory.
- Involve more than 100 teaching staff, 120 courses and 3000 undergraduate students.
- Introduce the Euro-Arabpass Diploma adapted from Europass.
- Develop an International Network of CLIMASP Studies.

The CLIMASP Minor

The interdisciplinary CLIMASP courses will consist of core courses, elective courses, and the required capstone course in the three concentration areas, namely:

1. Climate Change, Environment and Society
2. Climate Change, Economics and Public Policy
3. Climate Change, Science and Technology

The minimum courses to be taken by undergraduate students, including the capstone course, to qualify for the CLIMASP minor, will be weighted to 60 ECTS.

Students will be provided a formal credential through transcript documentation (Euro-Arabpass) adapting the Europass diploma to certify that they have developed leadership in the field of climate change and sustainability policy.





Development of an Interdisciplinary Program in

Climate Change and Sustainability Policy

- Developing a minor in Climate Change and Sustainability Policy will offer students the necessary knowledge, skills and attributes to tackle the challenges of climate change and turn them able to act as agents of change locally and globally.

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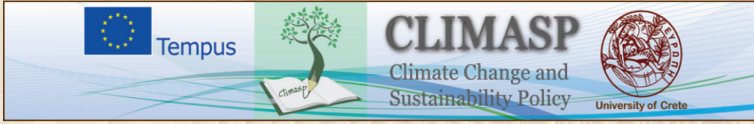
CLIMASP Partners

www.climasp.edc.uoc.gr



جامعة جرش

JERASH UNIVERSITY



التغير المناخي وسياسة الاستدامة

Climate Change and Sustainability Policy

دمج مفاهيم التغير المناخي
وسياسة الاستدامة في المناهج الدراسية الجامعية
Development of Interdisciplinary Program
on Climate Change and Sustainability Policy

عزيزي الطالب عزيزتي الطالبة هل ترغب/ي في الحصول على شهادة دبلوم من
الإتحاد الأوروبي دون أن تتحمل أية تكاليف أو تدرس أية مساقات غير تلك الموجودة في خطتك
الدراسية؟

جامعة جرش تعطيك هذه الفرصة اقرأ هذا الدليل حيث ستجد المعلومات التي تحتاجها عن
المشروع والمساقات المطلوبة للمشاركة في المشروع وضمن تخصصك، ثم ما عليك إلا أن تقوم
بتسجيل المساقات المدرجة ضمن خطة المشروع خلال دراستك علما بأن هذه المساقات
موجودة أصلا في خطتك الدراسية.

يتمثل الهدف العام للمشروع في تخريج كوادر قادرة على المساهمة في التنمية المستدامة من خلال فهم التغيرات المناخية وسبل تقليل أثارها السلبية إضافة إلى استدامة الموارد الطبيعية وتعزيز الأمن الغذائي والحد من تدهور الأراضي الزراعية. ويسعى المشروع إلى دمج مفاهيم التغير المناخي وسياسة الاستدامة في المناهج الدراسية لمرحلة البكالوريوس وصولاً إلى استحداث تخصص فرعي (Minor) بعنوان (التغير المناخي وسياسة الاستدامة: Climate Change & Sustainability Policy) في مختلف تخصصات الجامعة أو على الأقل في التخصصات التي تسمح خططها باستحداث هذا البرنامج بسهولة ثم تطوير المشروع لمستوى درجة البكالوريوس ثم درجة الماجستير في هذا التخصص. ويمنح الطالب المشارك في المشروع درجة الدبلوم (Euro-ArabPass Diploma) في التغير المناخي وسياسة الاستدامة من الإتحاد الأوروبي ومن الجامعات المشاركة في هذا البرنامج. يشارك في المشروع جامعات من الإتحاد الأوروبي ومن جمهورية مصر العربية ومن جمهورية لبنان ومن المملكة الأردنية الهاشمية. ويشمل المشروع مراحل ست هي التصميم والتطوير والتجريب والتطبيق والتقييم والمراجعة إضافة إلى عملية المراقبة وضمان الجودة خلال هذه المراحل.

تمويل المشروع: يتم تمويل المشروع من قبل الإتحاد الأوروبي بوساطة جامعة كريت (اليونان) المنسق الدولي للمشروع في أوروبا. وقد بلغت حصة جامعة جرش من هذا المشروع ما مقداره "82501 يورو" تساهم الجامعة بتغطية ما نسبته 10% من هذا المبلغ.



مدة المشروع: المدة المطلوبة لتنفيذ البرنامج هي من تاريخ توقيع الجامعة لاتفاقية المشروع مع الإتحاد الأوروبي بالأحرف الأولى (كانون أول 2013) ولمدة ثلاث سنوات (نهاية شهر كانون أول 2016).



فوائد ومبررات المشروع: يمكن إدراك أهمية هذا المشروع لعلاقته بالتغيرات المناخية العالمية وآثارها التي تحدث بشكل مضطرب، ويمكن تلخيص مبررات وفوائد مشروع التغير المناخي وسياسة الاستدامة في النقاط التالية:

1. المساهمة في إعداد كوادر علمية مؤهلة ومدربة في تخصص التغيرات المناخية وسياسة الاستدامة.
2. ضمان إنتاج علمي ذي مصداقية وجدوى يساعد في فهم آثار تغيرات المناخ والتخطيط للتنمية المستدامة.
3. توفير معارف شاملة حول السيناريوهات المحتملة للتغير المناخي ومواجهة آثاره أو على الأقل التخفيف منها ما أمكن.
4. تبادل الخبرات مع الجهات المماثلة والجهات ذات العلاقة بالتغيرات المناخية وأثرها على التنمية المستدامة.
5. تطوير مجالات البحث العلمي في مجال التغيرات المناخية وسياسة الاستدامة ومحاولة إيجاد الحلول للمشكلات البيئية وتطوير المختبرات البحثية والوسائل التعليمية لهذه الغاية.
6. إعداد كوادر علمية يمكنها إكمال الدراسات العليا في تخصص التغيرات المناخية وسياسة الاستدامة لرؤساء المؤسسات العلمية والتعليمية بهذا التخصص.
7. تدريب الكوادر العاملة في مجالات المناخ والبيئة من خلال عقد دورات في هذا المجال وخاصة كوادر دائرة الأرصاد الجوية ووزارة البيئة.
8. تلبية حاجة السوق المحلية والإقليمية لمختصين في موضوع التغيرات المناخية وسياسة الاستدامة للعمل في الدوائر ذات العلاقة مثل الأرصاد الجوية ووزارة البيئة وغيرها من الدوائر ذات العلاقة.



9. تبني جامعة جرش لبرنامج يمكن تطويره لدرجة الماجستير في التغيرات المناخية وسياسة الاستدامة ليكون مميّزا بهذا الاتجاه من بين الجامعات الأردنية وبشكل خاص الجامعات الخاصة.

10. تتطلب الظروف البيئية في الأردن وجود مثل هذا البرنامج للتعامل مع مشكلات تغيرات المناخ وإنتاج الغذاء والحفاظ على الموارد الطبيعية وحماية البيئة.

الكادر المشرف على المشروع من جامعة جرش:

يشرف على تنفيذ المشروع الزملاء التالية أسماؤهم:

1. د. علي الشرفات / كلية الزراعة / مدير مركز الاستشارات / منسقا للمشروع ومشرفا عليه.
2. د. محمد بريك / كلية العلوم / عضو فريق المشروع.
3. د. ميساء عطا / كلية الزراعة / عضو فريق المشروع.
4. د. عبدالله البدران / كلية الآداب / عضو فريق المشروع.
5. د. يوسف الجرايدة / كلية التربية / عضو فريق المشروع.

ما تم إنجازه من المشروع:

أولاً: مرحلة التصميم (المرحلة من كانون أول 2013 وحتى حزيران 2014): تم في هذه المرحلة:

1. تحديد فريق العمل في الجامعة وتحديد مهامه بدقة بعد توقيع اتفاقية المشروع مع ممثل الاتحاد الأوروبي، حيث تم اختيار هذا الفريق من قبل رئيس الجامعة.
2. وضع خارطة طريق لإنجاز العمل من قبل الجامعات المشاركة بناء على خطة العمل المرسلتة من المنسق الأوروبي للمشروع. وقد تم ذلك من خلال مجموعة من ورشات العمل شارك فيها فريق المشروع في الجامعة بكفاءة عالية.
3. إجراء دراسة مسحية لعينة من أصحاب العلاقة (Stakeholders) وتحليل هذه الدراسة وعرض نتائجها.

4. المشاركة في مجموعة من ورشات العمل خلال مرحلة التصميم شارك فيها المنسق الأوروبي.

5. تخصيص نافذة خاصة بالمشروع على الموقع الإلكتروني للجامعة (CLIMASP EN ONLY) حيث كانت جامعة جرش الأولى من الجامعات المشاركة في المشروع سواء في الأردن أو خارجه (عدا جامعة كريت) التي خصصت نافذة خاصة بالمشروع على الموقع الإلكتروني الخاص بالجامعة.

6. تطوير خطة عمل إستراتيجية للمشروع في جامعة جرش تشمل جميع بنود تطبيق المشروع حتى المرحلة الأخيرة حيث كانت جامعتنا الأولى من الجامعات المشاركة في المشروع من الأردن التي أنجزت هذه الخطة الخاصة بالمشروع (للإطلاع على الخطة يرجى مراجعة النافذة الخاصة بالمشروع على موقع الجامعة الإلكتروني أو مراجعة منسق المشروع).





■ ثانيا: مرحلة التطوير (المرحلة من حزيران 2014 وحتى شباط 2015): تم في هذه المرحلة:

1. مراجعة ما يتوفر في الجامعة من خطط للمسابقات التي تطرحها كليات الجامعة المختلفة لتحديد ما يناسب المشروع من تخصصات يمكن تطبيق المشروع عليها، حيث تمت مراجعة 1311 مساق من كليات الجامعة العشر، وتم اختيار 97 مساق من هذه المسابقات لتطبيق المشروع عليها لإمكانية دمج مفاهيم التغير المناخي وسياسة الاستدامة ضمنها.
2. تحديد التخصصات التي يمكنها المشاركة في المشروع وهي المحاسبة من كلية الاقتصاد والعلوم الإدارية وعلم الغذاء والتغذية والإنتاج النباتي والوقاية من كلية الزراعة واللغة الإنجليزية وآدابها والترجمة من كلية الآداب والعلوم الحياتية من كلية العلوم ومعلم صف ورياض الأطفال من كلية التربية.
3. تحديد الخطط الدراسية للتخصصات التي سيشملها المشروع، أدناه الخطة الدراسية العامة للتخصصات المشاركة في المشروع حيث تشمل الخطة مساقات إجباري جامعة واختياري جامعة وإجباري تخصص:

المسابقات التي يجب تسجيلها لنيل شهادة الدبلوم في التغير المناخي

أولا: المسابقات الإجبارية للمشروع بواقع 3 مساقات أي 9 ساعات وهي:
(جميع هذه المساقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق
ثانيا: المسابقات الاختيارية للمشروع بواقع 5 مساقات أي 15 ساعة من التالية:				
4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	701125	التفكير والإبداع	3	التربية
7	501108	قضايا قانونية معاصرة	3	الحقوق
8	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
9	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
10	101099	مهارات حاسوب	3	تكنولوجيا المعلومات
11	3 مساقات إجبارية من خطة الطالب		9	كلية الطالب

ثالثا: تدريب عملي أو مشروع تخرج أو مساق مناهج البحث العلمي بواقع 6 ساعات
(حسب خطة الطالب: راجع صفحة الخطة الخاصة بتخصصك)

1. يختار الطالب الذي يرغب في المشاركة في المشروع 30 ساعة ضمن المسابقات من الخطة أعلاه كما توضحها الخطة، وهي مسابقات ضمن خطته الدراسية الأصلية، أي أنه ما على الطالب إلا أن يختار دراسة المسابقات في خطة المشروع دون أن يتحمل أية أعباء مالية إضافية.
2. تطوير الخطط الدراسية لهذه المسابقات (97 مساق) التي تم اختيارها حيث تم دمج مفهوم التغير المناخي وسياسة الاستدامة ضمنها لتطبيق المشروع عليها وذلك ضمن وحدة أو على الأقل درس واحد تم إدراجه في الخطة.
3. اختيار عينة من المسابقات السابقة (العينة 28 مساق) لإجراء عملية التقييم الخارجي عليها، حيث قامت جامعة قناة السويس في جمهورية مصر العربية بهذه العملية وكانت نتيجة تقييمهم 3.3 من 4 وهي نتيجة متقدمة بين الجامعات المشاركة في المشروع.
4. تجهيز مركز ومختبر خاص بالمشروع يحوي أحدث الأجهزة يقع في الطابق الخامس في مبنى كلية الهندسة غرفة رقم 503.



مختبر التغير المناخي وسياسة الاستدامة

■ ثالثاً: مرحلة التجريب (المرحلة من شباط 2015 وحتى حزيران 2015): تم في هذه المرحلة:

1. إجراء دراسة قبلية لبعض المسابقات ضمن الخطة العامة من خلال استبانة تم توزيعها على الطلاب المسجلين في هذه المسابقات لتحديد مدى إدراك الطلبة لمفهوم التغير المناخي وسياسة الاستدامة قبل دراسة المسابقات ضمن الخطة العامة للمشروع.
2. إجراء دراسة بعدية في نهاية الفصل الحالي (الثاني 2014/2015) لتحديد مدى إدراك الطلبة لمفهوم التغير المناخي وسياسة الاستدامة بعد دراسة المسابقات ضمن الخطة العامة للمشروع.
3. بناء على نتائج هاتان الدراستان تم إجراء أية تعديلات مطلوبة وبالتنسيق مع المنسق الأوروبي.



جامعة جرش

JERASH UNIVERSITY

التغير المناخي وسياسة الاستدامة

Climate Change and Sustainability Policy



Tempus



CLIMASP

Climate Change and
Sustainability Policy



University of Crete

■ رابعا: مرحلة التطبيق (المرحلة من تموز 2015 وحتى نهاية المشروع) : سيتم في هذه المرحلة:

1. القيام بحملة لترويج المشروع حيث سيتم عقد مجموعة من اللقاءات مع السادة العمداء ورؤساء الأقسام والطلبة لتوضيح ماهية المشروع وأهدافه ومتطلباته وتوزيع هذا الكتيب وتوزيع منشورات وبروشورات خاصة بالمشروع على الطلبة المعنيين، كما سيتم تعليق مجموعة من الإعلانات الكبيرة في أماكن مناسبة في الجامعة للترويج للمشروع، وسيتم وضع إعلانات على موقع الجامعة الإلكتروني للترويج للمشروع.
2. القيام بحصر وتسجيل الطلبة الراغبين في المشاركة في المشروع من قبل رؤساء الأقسام وتحت إشراف فريق عمل المشروع.
3. البدء بتطبيق المشروع على الطلبة الراغبين في المشاركة.
4. يشترط أن يكون الطالب أو الطالبة المشاركة في المشروع قد قام بالتسجيل في الجامعة ابتداء من الفصل الدراسي الثاني للعام الحالي 2014/2015.
5. لا يتم اعتماد أي مساق من المساقات المعادلة للطالب إذا كان طالب تحجير أو من جامعة أخرى حيث يشترط وجود علامة للمساقات ضمن المشروع.
6. يجب أن يكون الطالب ناجحا في أي مساق ضمن المشروع لاعتماد مشاركته في المشروع.



الخطط الدراسية للتخصصات المشمولة بالمشروع





تخصص المحاسبة

أولاً: المساقات الإلزامية للمشروع بواقع 3 مساقات أي 9 ساعات وهي:
(جميع هذه المساقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المساقات الاختيارية للمشروع بواقع 5 مساقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	701125	التفكير والإبداع	3	التربية
7	501108	قضايا قانونية معاصرة	3	الحقوق
8	101099	مهارات حاسوب	3	تكنولوجيا المعلومات
9	204105	مبادئ في الإدارة العامة	3	الاقتصاد والعلوم الإدارية
10	206108	مبادئ في الاقتصاد الجزئي	3	الاقتصاد والعلوم الإدارية
11	206109	مبادئ في الاقتصاد الكلي	3	الاقتصاد والعلوم الإدارية

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

12	204216	مناهج البحث العلمي (كلية الاقتصاد)	3	الاقتصاد والعلوم الإدارية
13	203499	مشروع بحث تخرج (محاسبة)	3	الاقتصاد والعلوم الإدارية

30 ساعة

المجموع

تخصص علم الغذاء والتغذية

أولاً: المساقات الإلزامية للمشروع بواقع 3 مساقات أي 9 ساعات وهي:
(جميع هذه المساقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المساقات الاختيارية للمشروع بواقع 5 مساقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشريعة
6	701125	التفكير والإبداع	3	التربية
7	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
8	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
9	501108	قضايا قانونية معاصرة	3	الحقوق
10	101104	مهارات حاسوبية	3	تكنولوجيا المعلومات
11	601203	مبادئ علم التربة	3	الزراعة
12	607332	تغذية الإنسان	3	الزراعة
13	607336	صحة وسلامة الغذاء	3	الزراعة

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

14	607491	تطبيقات عملية في الغذاء والتغذية	6	الزراعة
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30 ساعة

المجموع

تخصص مبادئ الإنتاج النباتي والوقاية

أولاً: المسابقات الإلزامية للمشروع بواقع 3 مسابقات أي 9 ساعات وهي:
(جميع هذه المسابقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المسابقات الاختيارية للمشروع بواقع 5 مسابقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	701125	التفكير والإبداع	3	التربية
7	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
8	603211	مبادئ الاقتصاد الزراعي	3	الزراعة
9	501108	قضايا قانونية معاصرة	3	الحقوق
10	101104	مهارات حاسوبية	3	تكنولوجيا المعلومات
11	601203	مبادئ علم التربة	3	الزراعة
12	601201	مبادئ الإنتاج النباتي	3	الزراعة
13	302105	البيولوجيا العامة لطلبة الزراعة	3	العلوم

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

14	601491	الزراعة العملية 1	6	الزراعة
المجموع			30 ساعة	

تخصص اللغة الإنجليزية وآدابها

أولاً: المسابقات الإلزامية للمشروع بواقع 3 مسابقات أي 9 ساعات وهي:
(جميع هذه المسابقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المسابقات الاختيارية للمشروع بواقع 5 مسابقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	701125	التفكير والإبداع	3	التربية
7	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
8	501108	قضايا قانونية معاصرة	3	الحقوق
9	101099	مهارات حاسوب	3	تكنولوجيا المعلومات
10	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
11	102210	الكتابة	3	الآداب
12	108309	الترجمة I	3	الآداب

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

13	101103	فن الكتابة والتعبير	3	الآداب
14	102213	مناهج البحث العلمي	3	الآداب

30 ساعة

المجموع



تخصص الترجمة

أولاً: المساقات الإلزامية للمشروع بواقع 3 مساقات أي 9 ساعات وهي:
(جميع هذه المساقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المساقات الاختيارية للمشروع بواقع 5 مساقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	701125	التفكير والإبداع	3	التربية
7	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
8	501108	قضايا قانونية معاصرة	3	الحقوق
9	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
10	101099	مهارات حاسوب	3	تكنولوجيا المعلومات
11	102210	الكتابة	3	الآداب
12	108206	الترجمة إلى الإنجليزية	3	الآداب
13	108201	الترجمة العلمية	3	الآداب

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

14	101103	فن الكتابة والتعبير	3	الآداب
15	102213	مناهج البحث العلمي	3	الآداب

30 ساعة

المجموع

تخصص معلم صف

أولاً: المساقات الإلزامية للمشروع بواقع 3 مساقات أي 9 ساعات وهي:
(جميع هذه المساقات اختياري جامعة)

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2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المساقات الاختيارية للمشروع بواقع 5 مساقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
7	501108	قضايا قانونية معاصرة	3	الحقوق
8	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
9	701420	استخدام الحاسوب في التعليم	3	التربية
10	701222	مفاهيم علمية وأساليب	3	التربية
11	701324	تربية بيئية	3	التربية
12	701116	مهارات الحياة	3	التربية

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

13	701104	تربية عملية 1	3	التربية
14	701416	تربية عملية 2	3	التربية

30 ساعة

المجموع



تخصص رياض أطفال

أولاً: المسابقات الإلزامية للمشروع بواقع 3 مسابقات أي 9 ساعات وهي:
(جميع هذه المسابقات اختياري جامعة)

التسلسل	رقم المساق	اسم المساق	عدد الساعات	الكلية التي تطرح المساق
1	603116	التغير المناخي وسياسة الاستدامة	3	الزراعة
2	601115	علم البيئة والزراعة	3	الزراعة
3	501101	حقوق الإنسان	3	الحقوق

ثانياً: المسابقات الاختيارية للمشروع بواقع 5 مسابقات أي 15 ساعة من التالية:

4	102108	مهارات اتصال باللغة الإنجليزية	3	الآداب
5	403100	الثقافة الإسلامية	3	الشرعية
6	204322	إدارة المعرفة	3	الاقتصاد والعلوم الإدارية
7	501108	قضايا قانونية معاصرة	3	الحقوق
8	206107	مقدمة في الاقتصاد	3	الاقتصاد والعلوم الإدارية
9	703405	تطبيقات الحاسوب في رياض الأطفال	3	التربية
10	703215	التربية الصحية والبيئة	3	التربية
11	703402	قضايا معاصرة في رياض الأطفال	3	التربية
12	701116	مهارات الحياة	3	التربية

ثالثاً: تدريب عملي أو مشروع تخرج أو مناهج البحث العلمي بواقع 6 ساعات:

13	703406	تدريب ميداني	6	التربية
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30 ساعة

المجموع

إذا رغبت في المشاركة في برنامج التغير المناخي وسياسة الاستدامة (CLIMASP) والحصول على شهادة الدبلوم (Euro-Arabpass) في هذا المجال إضافة إلى شهادة البكالوريوس في تخصصك، ما عليك إلا أن تقوم بتسجيل المساقات المدرجة ضمن خطة البرنامج والموجودة أصلاً في خطتك الدراسية والموضح عنها في هذا الكتيب.

للاستفسار يرجى مراجعة رئيس قسمك أو:

1. د. علي الشرفات / كلية الزراعة / مدير مركز الاستشارات / منسقا للمشروع ومشرفا عليه.
2. د. محمد بريك / كلية العلوم / عضو فريق المشروع.
3. د. ميساء عطا / كلية الزراعة / عضو فريق المشروع.
4. د. عبدالله البدارنه / كلية الآداب / عضو فريق المشروع.
5. د. يوسف الجرايده / كلية التربية / عضو فريق المشروع.





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Climate Change and
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University of Crete



Guide to the Heliopolis University Minor in Climate Change



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Climate Change and
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University of Crete

Letter to the Students of Heliopolis University for Sustainable Development (HUSD)

Dear Students,

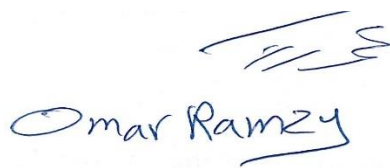
It is with great pleasure that I announce to the students of Heliopolis University that we will begin offering a degree in Climate Change under the TEMPUS project “Development of Interdisciplinary Program on Climate Change and Sustainability Policy”. This degree will be offered to students in all faculties and in all departments reflecting the interdisciplinary nature of this degree.

The degree being offered will require students to take courses from disciplines other than their major field of study. As such, any student taking this minor will take courses from Pharmacy, Engineering, and Business regardless of their current enrolment status. This aspect is critical to ensure that all students receive an interdisciplinary view on climate change, its challenges, and its potential solutions.

This degree will require all students to go out of their comfort zone and begin to challenge themselves to see the world in a completely different way. Having said this, I welcome all new applicants to this interesting new program, and I look forward to working with you and learning about climate change with you soon.

Kindest Regards,

Assoc. Prof. Omar Ramzy



Vice-Dean of the Faculty of Business & Economics,
& Director of RCE Cairo,
Heliopolis University for Sustainable Development



CLIMASP Study Guide

In order to take a degree in Climate Change, students must take the equivalent of 60 European Credit Transfer System (ECTS) which equates to approximately 38 Credit Hours (Cr Hrs). These are split into core courses, elective courses, and a capstone course at the end. However, as the Egyptian Supreme Council of Universities officially recognizes the Credit Hour system as the basis of the Heliopolis University bylaws, Credit Hours will be used for this program. However, the conversion rate will be noted if students are to transfer to or from universities using the ECTS system.

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
- 3) Climate Change, Science and Technology

The course program is distributed as follows:

Type of Course	No. of Cr Hrs
Core Courses	9 Cr Hrs
Elective Courses	24 Cr Hrs
Capstone Course	6 Cr Hrs
Total	38 Cr Hrs

**1. Core Courses (9 Cr Hrs)**

CLIMASP Orientations	Course ID	Course title	Cr Hrs	Department	Faculty
Climate Change, Environment and Society	2472	Natural Resource Management	3	Management	Business & Economics
Climate Change, Economics and Public Policy	2373	Environment Economics	3	Economics	Business & Economics
Climate Change, Science and Technology	1364	Plant Water relationship in Soil	3	Water Engineering	Engineering

2. Elective Courses (24 Cr Hrs)**a. Concentration Area 1 (Min. 6 Cr Hrs)**

CONCENTRATION AREA 1: Climate Change, Environment and Society				
Course ID	Course title	Cr Hrs	Department	Faculty
2441	Entrepreneurship 1	3	Management & Human Development	Business & Economics
2453	Business Ethics	3	Management & Human Development	Business & Economics
2265	Green Marketing	3	Marketing	Business & Economics
2271	Corporate Social Responsibility	3	Marketing	Business & Economics
2463	Media & Public Communication	3	Management & Human Development	Business & Economics
2252	Services Marketing	3	Marketing	Business & Economics
2471	Global Social Challenges	3	Management & Human Development	Business & Economics
2450	Project Management	3	Management & Human Development	Business & Economics

**b. Concentration Area 2 (Min. 6 Cr Hrs)**

CONCENTRATION AREA 2: Climate Change, Economics and Public Policy				
Course ID	Course title	Cr Hrs	Department	Faculty
2333	Macro-Economics	3	Economics & Development	Business & Economics
2341	Developmental Economics 1	3	Economics & Development	Business & Economics
2465	Politics, Policy, and Polity	3	Management & Human Development	Business & Economics
2365	Economic Policies	3	Economics & Development	Business & Economics
2364	Industry & Energy Economics	3	Economics & Development	Business & Economics
2362	Political Economy	3	Economics & Development	Business & Economics
2486	International Business	3	Management & Human Development	Business & Economics
2381	Resource Economics	3	Economics & Development	Business & Economics
2374	Applied Economics	3	Economics & Development	Business & Economics
2332	Engineering Economics	3	Economics & Development	Business & Economics

**c. Concentration Area 3 (Min. 6 Cr Hrs)**

CONCENTRATION AREA 3: Climate Change, Science and Technology				
Course ID	Course title	Cr Hrs	Department	Faculty
1344	Basics of Water Engineering	3	Water Engineering	Engineering
1354	Water Engineering Project	3	Water Engineering	Engineering
1374	Sanitary Engineering	3	Water Engineering	Engineering
1384	Waste Water Treatment	3	Water Engineering	Engineering
1398	Groundwater Flow	3	Water Engineering	Engineering
1027	Social Research and Networking	3	Basic Sciences	Engineering
1394	Desalination	3	Water Engineering	Engineering
1155	Renewable Energy Applications	3	Energy Engineering	Engineering
1194	Bioenergy Conversion	3	Energy Engineering	Engineering
3620	Microbiology and Immunology	3	Microbiology and Public Health	Pharmacy
3211	Pharmacognosy 1	3	Pharmacognosy and Medicinal Plants	Pharmacy
3221	Pharmacognosy 2	3	Pharmacognosy and Medicinal Plants	Pharmacy
3232	Phytochemistry 1	3	Pharmacognosy and Medicinal Plants	Pharmacy
3242	Phytochemistry 2	3	Pharmacognosy and Medicinal Plants	Pharmacy
3200	Botany	3	Pharmacognosy and Medicinal Plants	Pharmacy



3. Capstone Course

Each participating Department/Faculty has to decide on its capstone course, which is an independent research-oriented course that merges theory, practice and service learning. In a way, it is a small thesis for the CLIMASP minor. As such, it is not necessary to be a course that is already offered, but it will reflect the orientation of the Faculty and the CLIMASP philosophy.

Course ID	Course title	Cr Hrs	Department	Faculty
Varies based on department	Graduation Project	6	Varies based on Faculty	Varies

It is important to note that each department and each faculty have their own graduation projects. The graduation project of the students' faculty or major will determine which will be included in the CLIMASP minor. However, it is essential that the students make the project in a Climate Change related subject.



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Euro-Arab Center for Interdisciplinary Studies

The Euro-Arab Center for Interdisciplinary Studies (EACIS) is a center established by Heliopolis University for Sustainable Development and falls under the jurisdiction of the Regional Center of Expertise (RCE) Cairo. The main function of the EACIS is the research and development of courses that would include Climate Change and sustainability Policy infused within.



Function of the EACIS

The EACIS will be the focal point of the CLIMASP Project and will lead the process of curricula innovation. Any reoriented course must be revised and approved by this center, which may have participants from partner universities or from other national or international partners. When a revised (or newly created) course is approved by the center, it can be offered to all students studying in the university at the time provided that they have taken the necessary pre-requisites. This will also be the primary center that will hold the ICT lab and will offer the CLIMASP diploma. The center will be made up of national and international partners as well as university teaching faculty members from all disciplines/departments. Those who will be involved in creating this center will be responsible for creating an internal bylaws for the center.



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The CLIMASP Minor

The courses that would be involved in the CLIMASP minor will be split three different focuses of Science and Technology, Environment and Social Sciences, and Economics and Public Policy with the addition of a 6 Credit Hours internship/practical training. The students enrolled in the must take 3 required courses from each track (each worth 3 credit hours) and then choose 23 Credit Hours' worth of elective courses alternating from the various tracks provided.



Location and Facilities of the Center

The Center is located as part of RCE Cairo. Furthermore, the EACIS includes the all of the facilities of the ICT Lab provided by the CLIMASP project. As part of the CLIMASP Project, an ICT lab was to be developed in order to facilitate the transfer of knowledge and expertise from the different partner universities in helping in setting up the CLIMASP Minor.



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We look forward to seeing you in this program!



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Additional Information



For more information about the program, kindly contact the Center of Excellence for Education for sustainable Development located in the first floor of the Faculty of Business & Economics, or by sending an inquiry to the following email:

CLIMASP@hu.edu.eg



CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

The Climate Change and Sustainability Policy (CLIMASP) minor at The Hashemite 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 Educational Sciences, Faculty of Economics, Faculty of Science, Faculty of Information Technology, Faculty of Natural Resources and Environment, 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 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 trans-disciplinary 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).



CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAMME OUTLINE

I. CORE COURSES

CLIMASP Orientations	Course ID	Course title	Credit hours	ECTS*	Department	Faculty
Climate Change, Environment and Society	110108133	Environmental Awareness	3	5	Allied Basic Sciences	Science
Climate Change, Economics and Public Policy	111404120	Economics and Administration	3	5	Economics	Economics and Administrative Sciences
Climate Change, Science and Technology	110108104	Energy and it's Resources	3	5	Water Management and Environment	Natural Resources & Environment

* 3 Credit hours are equivalent to 5 ECTS

II. CAPSTONE COURSE

Course ID	Course title	Credit hours	ECTS	Department	Faculty
303495	Practicum	6	10	Curriculum and Instruction	Educational Sciences
1100201455	Special Topics	3	5	Economics	Economics and Administrative Sciences
110104495	Special Topics	3	5	Biology and Biotechnology	Science
151001491	Special Topics	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for information Technology
111202477	Research Project in Climate Change and Sustainability Policy	3	5	Land Management and Environment	Natural Resources and Environment
111202475	Special Topics	3	5	Water Management and Environment	Natural Resources and Environment
111202370	Environmental Volunteering	3	5	Land Management and Environment	Natural Resources and Environment





III. ELECTIVE COURSES

CONCENTRATION AREA 1: Climate Change, Environment and Society						
Course ID	Course title	Credit hours	ECTS	Department	Faculty	
110302237	Biological Concepts and their Teaching Methods	3	5	Curriculum and Instruction	Educational Sciences	
110302238	Teaching Methods of Chemistry and Geology Concepts	3	5	Curriculum and Instruction	Educational Sciences	
110302419	Education for Sustainable Development	3	5	Curriculum and Instruction	Educational Sciences	
111203458	Climate Change	3	5	Water Management and Environment	Natural Resources and Environment	
111203424	Environmental Impact Assessment	3	5	Water Management and Environment	Natural Resources and Environment	
111202411	Environmental Spatial and Temporal Variability	3	5	Land Management and Environment	Natural Resources and Environment	
CONCENTRATION AREA 2: Climate Change, Economics and Public Policy						
Course ID	Course title	Credit hours	ECTS	Department	Faculty	
110201412	Economics Feasibility Studies	3	5	Economics	Economics and Administrative Sciences	
110201327	The Economics of Natural Resources and Environment	3	5	Economics	Economics and Administrative Sciences	
110201414	Jordan Economy	3	5	Economics	Economics and Administrative Sciences	
110203209	Business Ethics	3	5	Economics	Economics and Administrative Sciences	
111203222	Environmental Legislation and Policy	3	5	Water Management and Environment	Natural Resources and Environment	
1203433	Environmental Sociology	3	5	Water Management and Environment	Natural Resources and Environment	





107751	Contemporary International Issues			Environment Humanities and Social Sciences	Art
CONCENTRATION AREA 3: Climate Change, Science and Technology					
Course ID	Course title	Credit hours	ECTS	Department	Faculty
110104362	Developmental Biology	3	5	Biotechnology and Society	Science
110108113	Biotechnology and Society	3	5	Allied Basic Sciences	Science
1203481	Renewable Energy Resources	3	5	Water Management and Environment	Natural Resources and Environment
111001214	Multimedia Programming	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for Information Technology
111001320	Computer Networks	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for Information Technology
110108115	Computer Ethics	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for information Technology

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

Spring Semester: Thursday, 28/1/2016

FOR MORE INFORMATION

Contact Dr. Theodora De Baz, (tdebaz@gmail.com, or tdebaz@hu.edu.jo) Tel. 00962-5-3903333 ext. 4211



برنامج تخصصى فرعي في

التغيرات المناخية وسياسة الاستدامة

Minor Program In

Climate Change and Sustainability Policy

(CLIMASP)

دليل الطالب
جامعة أسوان – ٢٠١٥





عزيزي الطالب

يمكنك الان الحصول على شهادة دبلوم معتمدة من الإتحاد الأوروبي وذلك عن طريق دراسة مجموعة من المقررات والتي بالفعل قمت بدراسة معظمها بكليتك.

الطلاب بجميع كليات جامعة اسوان يمكنهم التسجيل في البرنامج التخصصي الفرعي للتغيرات المناخية وسياسة الاستدامة (CLIMASP) وهو ما يتيح لهم فرصة لدراسة تخصصات جديدة والحصول على مزيد من فرص عمل.

بعد اختيار المسار المناسب لتخصصك سوف تقوم بدراسة المقررات التي لم تدرسها بكليتك لاستكمال الساعات الدراسية المطلوبة للحصول على الشهادة وهي ٥٠ ساعة معتمدة بالنظام الاوربي (50 ECTS).



يمنح الطالب بعد اتمام الدراسة درجة الدبلوم (Euro-Arab Pass Diploma) في التغيرات المناخية وسياسة الاستدامة من جامعة اسوان والمعادلة من الاتحاد الاوربي.



الشهادة معادلة لمثيلاتها بجامعات
الاتحاد الاوربي والجامعات
المشاركة في البرنامج وهي جامعة
هليوبوليس وجامعة قناة السويس
وجامعة بور سعيد وجامعة اسوان
من مصر، والجامعة الاردنية وجامعة
جرش الاهلية والجامعة الامريكية
في مادبا والجامعة الهاشمية من
الاردن، والجامعة اللبنانية الامريكية
وجامعة السيدة اللويزة من لبنان،
وجامعة كريت من اليونان، وجامعة
فريدريك من قبرص، وجامعة لوفيانا
من المانيا.



تمت الموافقة على بدء الدراسة
في البرنامج التخصص الفرعي
للتغيرات المناخية وسياسة
الاستدامة (CLIMASP) بالقرار
الصادر من مجلس جامعة اسوان
بتاريخ ٢٠١٥/٨/٢١



الرسالة

دمج مفاهيم التغيرات المناخية وسياسة الاستدامة في المناهج الدراسية لمرحلة البكالوريوس وتوفير قدر كاف من المعرفة لدراسة الاثار السلبية وايجاد الحلول.

الرؤية

التطلع لتقديم افضل فرص التعليم والبحث العلمى والتدريب والاستشارات الفنية فى مجال التغيرات المناخية وسياسة الاستدامة بمستوى يضاھى معايير الجودة العالمية.

الأهداف

- ١- تخريج كوادر علمية مؤهلة ومدربة فى تخصص التغيرات المناخية وسياسة الاستدامة.
- ٢- التشجيع على تغيير السلوكيات للحفاظ على البيئة واتباع طرق تنمية أكثر استدامة.
- ٣- بناء جيل جديد من المواطنين على دراية وعلم بالتغيرات المناخية وسياسة الاستدامة.
- ٤- بناء قاعدة معرفية وتوسيعها حول التغيرات المناخية وسياسة الاستدامة.
- ٥- خلق الوعي بشأن القضايا والاثار السلبية والتحديات للتغيرات المناخية وسياسة الاستدامة.
- ٦- البحث والتطوير في مجال التغيرات المناخية وسياسة الاستدامة.



المركز الاوربي العربي للدراسات متعددة التخصصات Euro-Arab Center for Interdisciplinary Studies (CIS)

هو المركز المعنى بالاشراف على برنامج التغيرات المناخية وسياسة الاستدامة، وإدارة جميع الاعمال المتعلقة به. يقع المركز بالدور الثانى بالمبنى الادارى الرئيسى بمبانى الجامعة بصحارى.



الادارة:

- | | |
|-------------|------------------------------|
| مدير المركز | ١- د / عادل عبد الفهيم السيد |
| نائب المدير | ٢- د / وليد احمد عبد الفضيل |
| سكرتارية | ٣- ا / حنان على ابراهيم |
| ادارى | ٤- ا / خالد السيد بدرى |
| ادارى | ٥- ا / هيثم محمود عيد |
| ادارى | ٦- ا / كمال حسين حامد |



ملاح خاصة بالمقررات

البرنامج التخصصي الفرعي للتغيرات المناخية وسياسة الاستدامة (CLIMASP) يتكون من مقررات اساسية ومقررات اختيارية ومقررات اجبارية تركز على التغير المناخي في ثلاثة مجالات وهي: (١) البيئة والمجتمع. (٢) الاقتصاد والسياسة العامة. (٣) العلوم والتكنولوجيا.

المقررات الدراسية

يختار الطالب احد المسارات الاتية حسب تخصصه.

المسار الأول

لطلاب كليات (العلوم وهندسة الطاقة والهندسة والطب والطب البيطري والتمريض والزراعة وتكنولوجيا المصايد والاسماك وغيرها من كليات العلوم الطبيعية)

أولا: المقررات الاساسية: ٢ مقررات بواقع ١٥ ساعة معتمدة حسب النظام الاوربي

CLIMASP Orientations	Course ID	Course title	ECTS*	Department	Faculty
Climate Change, Environment and Society	LAW 101	Human rights	5	Law	Law
Climate Change, Economics and Public Policy	COM 203	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



ثانيا: المقررات الاجبارية: بواقع ١٠ ساعات معتمدة حسب النظام الاوربي

Course ID	Course title	ECTS	Department	Faculty
1	Graduate Project Or Research Or Article	10	All	Engineering & Science

ثالثا: المقررات الاختيارية: يختار الطالب ٥ مقررات بواقع ٢٥ ساعة معتمدة حسب النظام الاوربي

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



المسار الثاني

لطلاب كليات (الخدمة الاجتماعية والتربية والتربية النوعية والاداب والاثار والتجارة
واللغات والترجمة والتربية الرياضية وغيرها من كليات العلوم الانسانية)

**اولا: المقررات الاساسية: ٣ مقررات بواقع ١٥ ساعة معتمدة
حسب النظام الاوربي**

CLIMASP Orientations	Course ID	Course title	ECTS	Department	Faculty
Climate Change, Environment and Society	LAW 101	Human rights	5	Law	Law
Climate Change, Economics and Public Policy	COM 203	Economic and Environment	5	Accounting	Commerce
Climate Change, Science and Technology	Math 101	Computer Sciences	5	Math	Science

**ثانيا: المقررات الاجبارية: بواقع ١٠ ساعات معتمدة حسب النظام
الاوربي**

Course ID	Course title	ECTS	Department	Faculty
1	Field Training	10	All	Social & Education



ثالثا: المقررات الاختيارية: يختار الطالب ٥ مقررات بواقع ٢٥ ساعة معتمدة حسب النظام الاوربي

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

CLIMASP Partners



<http://www.climasp.edc.uoc.gr>



Coordinating Institution and Grant Holder

University of Crete
Faculty of Education
Dept. of Primary Education
 74100 Rethymnon, Crete, Greece

UNESCO Chair
ICT in Education for Sustainable Development
 Chairholder: Prof. Dr. Vassilios Makrakis
 University of Crete - Faculty of Education
 Department of Primary Education

<http://www.edc.uoc.gr/unescochair/>



<http://www.edc.uoc.gr/unescochair/rcrete/>



Tempus



University of Crete

Development of an Interdisciplinary Programme in Climate Change and Sustainability Policy



Project Coordinator
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Funded by the European Commission
 (543879-TEMPUS-1-2013-1-GR-TEMPUS-JPCR)
 Grant Agreement No. 2013-5043/001-001
 December 2013 - November 2016

- Developing a minor in Climate Change and Sustainability Policy will offer students the necessary knowledge, skills and attributes to tackle the challenges of climate change and turn them able to act as agents of change locally and globally.
- Choosing a minor combined with a major degree it gives students the opportunity to pursue a second area of interest that can open significant career opportunities, besides building knowledge and skills in an area that fulfils their personal interests.



CLIMASP Objectives

- Develop capacity-building programmes to train university teaching staff and key administrators for interdisciplinary collaboration and building partnerships with local/national/regional partners.
- Involve university staff and other key stakeholders (e.g., students, professionals) in the development of an undergraduate interdisciplinary programme in CLIMASP in each partner country university.
- Integrate and implement the CLIMASP programme as an integral part to existing undergraduate academic degrees in disciplines such as education sciences, applied sciences, technical sciences, economics/business sciences, and social sciences; and
- Monitor, evaluate and review the CLIMASP programme in each partner country institution.



Key Components

- Adopt a multi-stakeholder perspective in course curriculum development.
- Develop guidelines for strengthening stakeholders' inputs in the CLIMASP curriculum development and implementation.
- Organise and carry out three national and two regional training workshops.
- Develop online toolkits to provide continuous training support and resources.
- Develop, validate and accredit 240-300 interdisciplinary course syllabi and course modules.
- Develop 10 Euro-Arab Centres for Interdisciplinary Studies and Climate Change with an ICT Laboratory.
- Involve more than 100 teaching staff, 120 courses and 3000 undergraduate students.
- Introduce the Euro-Arabpass Diploma adapted from Europass.
- Develop an International Network of CLIMASP Studies.

The CLIMASP Minor

The interdisciplinary CLIMASP courses will consist of core courses, elective courses, and the required capstone course in the three concentration areas, namely:

1. Climate Change, Environment and Society
2. Climate Change, Economics and Public Policy
3. Climate Change, Science and Technology

The minimum courses to be taken by undergraduate students, including the capstone course, to qualify for the CLIMASP minor, will be weighted to 60 ECTS.

Students will be provided a formal credential through transcript documentation (Euro-Arabpass) adapting the Europass diploma to certify that they have developed leadership in the field of climate change and sustainability policy.





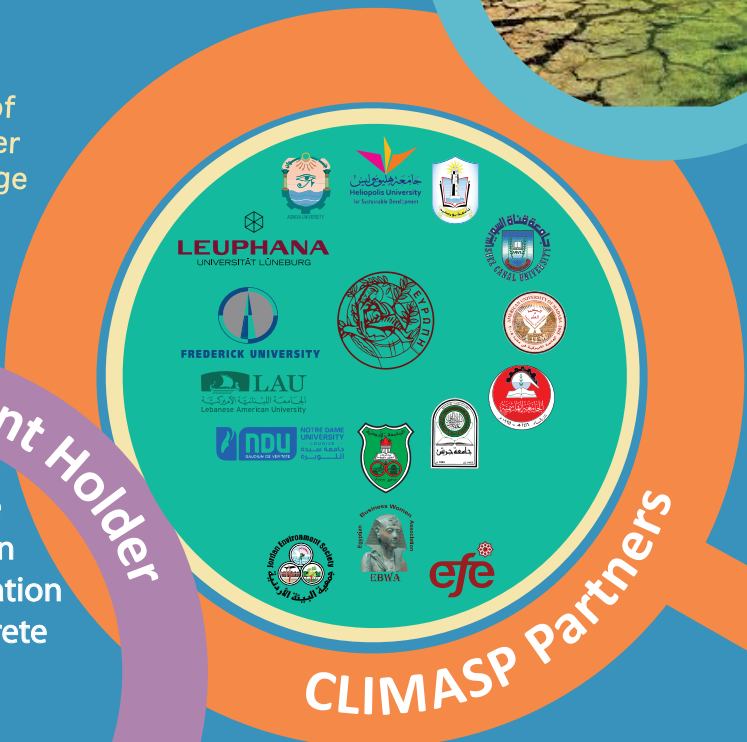
Development of an Interdisciplinary Program in

Climate Change and Sustainability Policy

- Developing a minor in Climate Change and Sustainability Policy will offer students the necessary knowledge, skills and attributes to tackle the challenges of climate change and turn them able to act as agents of change locally and globally.

- Choosing a minor combined with a major degree it gives students the opportunity to pursue a second area of interest that can open significant career opportunities, besides building knowledge and skills in an area that fulfils their personal interests.

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Coordinating Institution and Grant Holder

University of Crete
Faculty of Education
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Greece

Project Coordinator
Prof. Dr. Vassilios Makrakis
makrakis@edc.uoc.gr

CLIMASP Partners

www.climasp.edc.uoc.gr

AUM - CLIMASP PROGRAMME OUTLINE - www.aum.edu/CLIMASP



CLIMASP
Climate Change and
Sustainability Policy



I. CORE COURSES (All three are mandatory courses)

CLIMASP Orientations	Course ID	Course title	CH	Department	Faculty
Climate Change, Environment and Society	900171	Science and Society	3	Basic Sciences & Humanities	Science
Climate Change, Economics and Public Policy	900115	Social Ethics	3	Languages & Communication	Art and Languages
Climate Change, Science and Technology	900170	Energy and the Environment	3	Basic Sciences & Humanities	Science

II. CAPSTONE COURSE (one mandatory course according to student's major)

Course ID	Course title	CH	Department	Faculty
505492	Graduation Project	5	Risk management	Business and Finance
303461	Internship in Food Science	5	Nutrition & Dietetics	Health Sciences
201473	Research project	5	Biology&Biotechnology	Science

III. ELECTIVE COURSES (at least 1 course from each area, and 6 courses or 18 CH in total)

CONCENTRATION AREA 1: Climate Change, Environment and Society

Course ID	Course title	CH	Department	Faculty
900112	Civic Education	3	B.Sciences&Humanities	Science
303465	Special Topics in Food Sciences	3	Nutrition & Dietetics	Health Science

CONCENTRATION AREA 2: Climate Change, Economics and Public Policy

Course ID	Course title	CH	Department	Faculty
900150	Introduction to Economics	3	-	Business & Finance
505101	Principles of Risk management	3	Risk management	Business & Finance
505321	Corporate Environmental management	3	Risk management	Business & Finance
505322	Project Risk Management	3	Risk Management	Business & Finance
505332	Disaster and Emergency Management	3	Risk management	Business & Finance
505431	Applications of Risk Management	3	Risk Management	Business & Finance

CONCENTRATION AREA 3: Climate Change, Science and Technology

Course ID	Course title	CH	Department	Faculty
900116	Bio ethics	3	B.Sciences&Humanities	Science
201323	Applied Plant Biology	3	Biology&Biotechnology	Science
304231/201331	(Basic) Microbiology	3	Med. Labs, Biology & Biotechnology	Health Sciences/Science
201415,201416	Ecology, Ecology lab	4	Biology&Biotechnology	Science
201417	Applied Ecology	3	Biology&Biotechnology	Science
201472	Selected Topics in Environmental Biology	3	Biology&Biotechnology	Science
303240	Food Science	3	Nutrition & Dietetics	Health Sciences
303341	Food Hygiene	3	Nutrition & Dietetics	Health Sciences
303455	Nutrition Education	3	Nutrition & Dietetics	Health Sciences
303441	Food Systems Management	3	Nutrition & Dietetics	Health Sciences

* 3 Credit hours are equivalent to 5 ECTS



Aswan University

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAM

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAM

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 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 Interdisciplinary Studies.



CLIMASP
Climate Change and Sustainability Policy



CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAM

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

ASWAN UNIVERSITY

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAM

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

ASWAN UNIVERSITY



CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

The Climate Change and Sustainability Policy (CLIMASP) minor at The Hashemite 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 Educational Sciences, Faculty of Economics, Faculty of Science, Faculty of Information Technology, Faculty of Natural Resources and Environment, choosing the CLIMASP minor as a complement of their major opens to them new opportunities for further studies and career paths.

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LEARNING HOW TO TRANSFORMATIVELY ADAPT

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MERGING THEORY WITH PRAXIS

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CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAMME OUTLINE

I. CORE COURSES

CLIMASP Orientations	Course ID	Course title	Credit hours	ECTS*	Department	Faculty
Climate Change, Environment and Society	110108133	Environmental Awareness	3	5	Allied Basic Sciences	Science
Climate Change, Economics and Public Policy	111404120	Economics and Administration	3	5	Economics	Economics and Administrative Sciences
Climate Change, Science and Technology	110108104	Energy and it's Resources	3	5	Water Management and Environment	Natural Resources & Environment

* 3 Credit hours are equivalent to 5 ECTS

II. CAPSTONE COURSE

Course ID	Course title	Credit hours	ECTS	Department	Faculty
303495	Practicum	6	10	Curriculum and Instruction	Educational Sciences
1100201455	Special Topics	3	5	Economics	Economics and Administrative Sciences
110104495	Special Topics	3	5	Biology and Biotechnology	Science
151001491	Special Topics	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for information Technology
111202477	Research Project in Climate Change and Sustainability Policy	3	5	Land Management and Environment	Natural Resources and Environment
111202475	Special Topics	3	5	Water Management and Environment	Natural Resources and Environment
111202370	Environmental Volunteering	3	5	Land Management and Environment	Natural Resources and Environment





III. ELECTIVE COURSES

CONCENTRATION AREA 1: Climate Change, Environment and Society						
Course ID	Course title	Credit hours	ECTS	Department	Faculty	
110302237	Biological Concepts and their Teaching Methods	3	5	Curriculum and Instruction	Educational Sciences	
110302238	Teaching Methods of Chemistry and Geology Concepts	3	5	Curriculum and Instruction	Educational Sciences	
110302419	Education for Sustainable Development	3	5	Curriculum and Instruction	Educational Sciences	
111203458	Climate Change	3	5	Water Management and Environment	Natural Resources and Environment	
111203424	Environmental Impact Assessment	3	5	Water Management and Environment	Natural Resources and Environment	
111202411	Environmental Spatial and Temporal Variability	3	5	Land Management and Environment	Natural Resources and Environment	
CONCENTRATION AREA 2: Climate Change, Economics and Public Policy						
Course ID	Course title	Credit hours	ECTS	Department	Faculty	
110201412	Economics Feasibility Studies	3	5	Economics	Economics and Administrative Sciences	
110201327	The Economics of Natural Resources and Environment	3	5	Economics	Economics and Administrative Sciences	
110201414	Jordan Economy	3	5	Economics	Economics and Administrative Sciences	
110203209	Business Ethics	3	5	Economics	Economics and Administrative Sciences	
111203222	Environmental Legislation and Policy	3	5	Water Management and Environment	Natural Resources and Environment	
1203433	Environmental Sociology	3	5	Water Management and Environment	Natural Resources and Environment	





107751	Contemporary International Issues			Environment	Humanities and Social Sciences	Art
CONCENTRATION AREA 3: Climate Change, Science and Technology						
Course ID	Course title	Credit hours	ECTS	Department	Faculty	
110104362	Developmental Biology	3	5	Biotechnology and Society	Science	
110108113	Biotechnology and Society	3	5	Allied Basic Sciences	Science	
1203481	Renewable Energy Resources	3	5	Water Management and Environment	Natural Resources and Environment	
111001214	Multimedia Programming	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for Information Technology	
111001320	Computer Networks	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for Information Technology	
110108115	Computer Ethics	3	5	Computer Science and Applications	Prince Al-Hussein Bin Abdullah II for information Technology	

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

Spring Semester: Thursday, 28/1/2016

FOR MORE INFORMATION

Contact Dr. Theodora De Baz, (tdebaz@gmail.com, or tdebaz@hu.edu.jo) Tel. 00962-5-3903333 ext. 4211





Jerash University
Jordan

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

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
Interdisciplinary Studies**



Co-funded by the
Tempus Programme
of the European Union



CLIMASP
Climate Change and
Sustainability Policy





CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAMME OUTLINE

I. CORE COURSES

CLIMASP Orientations	Course ID	Course title	ECTS*	Department	Faculty
Climate Change, Environment and Society	501101	Human Rights	5	Public Law	Law
Climate Change, Economics and Public Policy	603116	Climate Change & Sustainable Policy	5	Agri. Economics	Agriculture
Climate Change, Science and Technology	601115	Environmental science & Agriculture	5	Plant Production	Agriculture

* 3 Credit hours are equivalent to 5 ECTS

II. CAPSTONE COURSE

Course ID	Course title	ECTS	Department	Faculty
607491	Practical applications in Food & Nutrition	10	Food Science & Nutrition	Agriculture
601491	Practical Agriculture1 (Plant Prod. & Prot.)	10	Plant Production & Protection	
102213	Research Methodologies	5	English Language	Arts
101103	The art of writing and expression	5	Translation	
102213	Research Methodologies	5		
101103	The art of writing and expression	5		
204216	Research Methodologies	5	Accounting	Econ. & Adm. Sci.
203499	Graduation Project	5		
701104	Practical Education 1	5	Classroom Teacher	Education
701416	Practical Education 2	5		
703406	Practical Education 1	10		

III. ELECTIVE COURSES

CONCENTRATION AREA 1: Climate Change, Environment and Society				
Course ID	Course title	ECTS	Department	Faculty
607332	Human Nutrition	5	Nutrition	Agriculture
607336	Food Safety	5	Nutrition	Agriculture
204322	Knowledge management	5	Business Adm.	Econ. & Adm. Sci.
102108	Communication skills in English	5	English Language	Arts
701112	Thinking and Creativity	5	Class Room Teacher	Education





CONCENTRATION AREA 2: Climate Change, Economics and Public Policy

Course ID	Course title	ECTS	Department	Faculty
206107	Introduction to Economics	5	Economics	Econ. & Adm. Sci.
501108	Contemporary legal Issues	5	Public Law	Law
501435	Environmental law	5	Public Law	Law
206310	Fiscal and monetary policies	5	Public Adm.	Econ. & Adm. Sci.
206107	Introduction to economics	5	Public Adm.	Econ. & Adm. Sci.
206343	Economic development	5	Public Adm.	Econ. & Adm. Sci.
206109	Macroeconomics	5	Public Adm.	Econ. & Adm. Sci.
206108	Microeconomics	5	Public Adm.	Econ. & Adm. Sci.
302222	Economic plants	5	Biology	Science

CONCENTRATION AREA 3: Climate Change, Science and Technology

Course ID	Course title	ECTS	Department	Faculty
101099	Computer Skills	5	Comp. Sci.	IT
602340	Animal environment	5	Animal Prod.	Agriculture
302447	Biodiversity	5	Biology	Science
302105	General biology	5	Biology	Science
102309	Translation 1	5	English Language	Arts
601201	Plant Production	5	Plant Prod.	Agriculture
301101	General Chemistry	5	Chemistry	Science
304101	General Physics	5	Physics	Science

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 Semester: Thursday, Oct. 1

Spring Semester: Tuesday, Feb. 10

FOR MORE INFORMATION

Contact Dr. Ali AL-Sharafat (alijerash@gmail.com, or bkhitan2@yahoo.com) Tel. 0096226350521, ext. 135 & 136



جامعة بورسعيد
PORT SAID UNIVERSITY



CLIMASP

E-MAIL: CLIMASP@PSU.EDU.EG

WWW.PSU.EDU.EG



★ CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

The Climate Change and Sustainability Policy (CLIMASP) minor at Port Said 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 Science, Faculty of Engineering, 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.

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★ LEARNING HOW TO TRANSFORMATIVELY ADAPT

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CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAMME OUTLINE

★ I. CAPSTONE COURSE

Course ID	Course title	ECTS	Faculty
CS100	Graduation Project	10	Various

★ II. ELECTIVE COURSES

CONCENTRATION AREA 1: Climate Change, Environment and Society

Course ID	Course title	ECTS	Faculty
ES101	Community Medicine	3	Medicine
ES102	Environmental Psychology	3	Education
ES103	Biological and Social Anthropology	3	Education
ES104	Environmental Sciences	3	Education
ES105	Environmental Studies	3	Science
ES106	Man and Environment	3	Medicine
ES107	Scientific Culture	3	Education

CONCENTRATION AREA 2: Climate Change, Science and Technology

Course ID	Course title	ECTS	Faculty
ST101	Air Pollution Management	5	Science
ST102	Meteorological Physics	5	Science
ST103	Basics of Environmental Sciences	5	Science
ST104	Hydro-Geo- Chemistry and Environment	5	Science
ST105	Soil Pollution Management	5	Science
ST106	Energy and Environment	5	Science
ST107	Climate Geography	5	Arts
ST108	Microbiology and Environment	5	Science
ST109	Remote Sensing and Graphical Geology	5	Science
ST110	Renewable Energies	5	Science
ST111	Water Pollution Management	5	Science



CONCENTRATION AREA 3: Climate Change, Economics and Public Policy			
Course ID	Course title	ECTS	Faculty
EP101	Architectural Design	5	Engineering
EP102	Decision Support Systems	5	Commerce
EP103	Environmental Control in Architecture	5	Engineering
EP104	Developmental Geography	5	Arts
EP105	Human Rights	3	Education
EP106	Industrial Quality Management	5	Science
EP107	Egyptian and International Environmental Law and Policy	3	Science
EP108	Lighting & Building Acoustics	5	Engineering
EP109	Macroeconomic	3	Commerce
EP110	Human Resources Management	5	Commerce
EP111	Regional Planning	5	Engineering
EP112	Environmental Impact Assessment of Projects	5	Science

★ 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 : 11th October , 2015
SPRING will be posted online.

★ FOR MORE INFORMATION

Contact:

Dr.Mahmoud Mohasseb

Project Coordinator

Email: mohasseb@mans.edu.eg

Tel.: +201096908622

Contact:

Eng.Ahmed Fahmi

Project Technical Assistant & Coordinator of Euro-Arab Center

Email: eng.ahmed.fahmy22@gmail.com

Tel.: +201062193399



University of
Jordan

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

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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).

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CLIMASP
Climate Change and
Sustainability Policy



University of Crete



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CLIMATE CHANGE AND SUSTAINABILITY POLICY MINOR PROGRAMME

CLIMATE CHANGE AND SUSTAINABILITY MINOR PROGRAMME OUTLINE

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

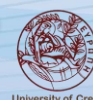
* To be taken by all the students except students of the School of Business

** 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
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