



UNIVERSITY OF CRETE

1977-78 { 40 } 2017-18  
years

# Summer Schools 2018



HERAKLION

RETHYMNON

- Medicine
- Mathematics & Applied Mathematics
- Chemistry
- Biology
- Computer Science

- Primary Education
- Economics
- Philology

www.uoc.gr

## Dear Prospective Participants,

It is a great pleasure for us to introduce the University of Crete Summer Schools, one of the most popular Academic summer programs of the Mediterranean region. The Summer Schools are organized by the University of Crete and take place in both the University campuses of Heraklion and Rethymnon, on the island of Crete.

Investing in academic excellence constitutes a strategic goal of the University of Crete, along with the active promotion of mobility programs. The Faculty members of the University of Crete are very excited to offer talented young students from all over the world the opportunity to broaden their

scientific horizons and experiences. The UoC Summer Schools provide the students a unique opportunity to experience excellence in research and teaching, and gain a unique insight into university life. You will enjoy an international atmosphere, meeting people from all over the world, learning about different cultures and making friends on a truly international summer program.

The University of Crete Summer Schools are dynamically growing over the last years. We are proud of a summer program which offers young adults a chance to explore a variety of disciplines: Ancient Greek History, Archaeology, as well as Life Sciences, Arts and Humanities, Education, Chemistry, Medicine, Business and Social Sciences.

Our past summer experience has been absolutely wonderful, with students coming from all over the world and contributing to the Summer Schools in so many ways beyond the academic experience. Thus, we are very proud of the UoC summer schools performance so far, reflected in our students' excellent assessments. We will certainly take great care to ensure that we continue offering a truly unique and enjoyable experience to all.

The Summers Schools in Crete also offer a unique opportunity for the students, to combine educational courses with inspiring social activities, explore the Minoan and the modern Cretan civilizations, discover the spectacular scenery of Crete, join local cultural events and taste the traditional Cretan cuisine.

We look forward to welcoming you to the Summers Schools of the University of Crete next summer!

Sincerely yours,

**Prof. George Sourvinos**  
Director of Summer Schools



**Prof. Odysseas I. Zoras**  
Rector, University of Crete



# Summer Schools - University of Crete 2018

## HERAKLION



## RETHYMNON



“ [www.heraklion.gr/en/visitors](http://www.heraklion.gr/en/visitors)  
[www.rethymnon.gr/en/city/welcome](http://www.rethymnon.gr/en/city/welcome) ”

**Director:** Prof George Sourvinos,  
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**Secretary:** Mrs Evgenia Skountaki,  
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## Why choose the Summers Schools of the University of Crete

- 1 University Enrichment**  
Live in a young but well-established European university, experience excellence in research and teaching and gain a unique insight into university life. The University of Crete offers a vibrant social and intellectual environment for research and education.
- 2 Academic Excellence**  
It is a strategic choice of the University of Crete to invest in academic excellence and make an ongoing effort for a continuous improvement in all scientific fields. The international orientation of the University of Crete presents an outstanding track record of collaborations with many of the leading research and educational institutions in Europe and worldwide, as well as active promotion of mobility and exchange programs.
- 3 International Experience**  
At the University of Crete you can meet people from all over the world, learn about different cultures and make friends on a truly international summer program.
- 4 Personal Development**  
You can learn how to manage your own free time outside class, choosing among sports, sightseeing, shopping, and food tasting or just hanging out!
- 5 Exciting Social Life**  
You can combine our educational courses with brilliant activities and trips to the most famous places of Crete, explore ancient and modern Mediterranean civilizations, experience the local culture and traditions and discover the unique scenery of Crete.

## MEDICAL SCHOOL



### Summer School Title: *Urology from A through Z: Appliance in Primary Health Care*

**Course Director:** Charalampos Mamoulakis

**Time and Place:**

**July 30- August 3, 2018**

Dept of Urology (Pa.G.N.I),  
University of Crete, Medical School

**Description:**

General Urology – Primary Health Care

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### Summer School Title: *Non-surgical management of common musculoskeletal injuries: Everything I need to know*

**Course Director:** Theodoros Tosoundis

**Time and Place:** 18-20 July 2018

School of Medicine – University of Crete  
Univesity Hospital of Herakleion Crete

**Description:**

Education and training of doctors (general practitioners, orthopaedic surgeon, emergency medicine physicians), nurses, and other allied health professional (physiotherapists, paramedics) in the non-surgical management of the commonest musculoskeletal injuries.

### Summer School Title: *Summer School of Clinical Immunology*

**Course Director:**

Chrysoula Perdikogianni

**Time and Place:**

**July, 2-6 2018**

University of Crete, Medical  
School, Heraklion Crete

**Description:**

The summer school will cover a spectrum of topics in the field of Clinical Immunology. The programme is organised on 5 main modules: immunology of and susceptibility to infections, vaccine immunology, primary immunodeficiencies, autoimmune diseases from diagnosis to treatment and the new field of autoinflammatory diseases. A system-based approach will be implemented, with emphasis on clinical approach, from theory to case studies. The programme is aimed primarily at undergraduate and graduate students of Medicine, Biology and relevant fields with interest in clinical aspects of Immunology.



## MEDICAL SCHOOL

### Summer School Title: *Vaccines*

**Course Director:** Emmanouil Galanakis

**Time and Place:** 09-13 July 2018  
Heraklion, School of Medicine

**Description:**  
Health Sciences, Public Health, Prevention, Epidemiology, Policies, Communication and Networking. Theory, Skills, and Social Aspects, Facts and Misconceptions

### Summer School Title: *Aegean Summer School in Visual Optics*

**Course Director:** Ioannis Pallikaris

**Time and Place:** 7-9 July 2018  
Heraklion, Crete (IBIS hotel)

**Description:** An international course organized since 2002 providing up-to-date knowledge in the field of Optics and Vision with application in ophthalmology and optometry.

**Webpage:** <http://www.ivo.gr/en/summerschool/summer-school.html>

### Summer School Title: *Spinalonga 2018: Stigma in medicine-Old and New Concepts*

**Course Director:**

Marianna Karamanou, Associate Professor of History of Medicine, Medical School, University of Crete

**Time and Place:**  
9-12 July 2018  
Elounda-Spinalonga

**Description:**  
The study of the diseases which marked the social structures from antiquity to the present day as well as their interaction with society and the way of practicing medicine. The ultimate goal of summer school is to educate participants on issues related to the social stigma in medicine and to find ways to manage, tackle and eliminate it.



Summer School  
Title:  
*Math Summer School for  
children, 10-12 years old*

**Course Director:**

Georgios Kossioris, Professor, Department  
of Mathematics and Applied Mathematics

**Time and Place:**

4-6 July 2018

Dept. of Mathematics & Applied Mathemat-  
ics, University of Crete, Voutes Campus,  
Heraklion, Crete, Greece

**Description:**

The Department of Mathematics and Ap-  
plied Mathematics of the University of Crete  
along with the Heraklion and Lasithi Branches  
of the Hellenic Mathematical Society organiz-  
es a summer school in mathematics with  
math and science games and other fun  
activities for children 10-12 years  
old.



Summer School Title:  
*Bioinspired Materials for Solar Energy  
Utilization*

**Course Director:** Coutsolelos Athanassios

**Time and Place:** July 8 to 21, 2018, Heraklion

**Description:** One route to harvesting the energy of the sun involves learning to mimic natural photosynthesis. Here, sunlight falls on a porphyrin, one member of a family of molecules that includes the chlorophylls, which play a central role in capturing light and using its energy for photosynthesis in green plants. Efficient light-harvesting of the solar spectrum by porphyrins and related molecules can be used to power synthetic molecular assemblies and solid- state devices - applying the principles of photosynthesis to the production of hydrogen, methane, ethanol, and methanol from sunlight, water, and atmospheric carbon dioxide.

website:

[http://www.  
chemistry.uoc.gr/  
bimasouti/](http://www.chemistry.uoc.gr/bimasouti/)



## BIOLOGY DEPARTMENT

### Summer School Title: *Care and use of laboratory animals: mice, rats, zebrafish*

#### Course Director:

Michalis Pavlidis Professor of Biology -  
Physiology of Marine Organisms.  
Department of Biology, University of Crete

#### Time and Place:

**June 04, 2018 – June 15, 2018**  
Department of Biology, UoC, Heraklion, Crete, Greece

#### Description:

The course through modern pedagogical and didactical approaches will offer to the participants a thorough understanding of the philosophical concepts and scientific principles in animal welfare and practical skills to conduct research with the use of laboratory animals (mice, rats & zebrafish).

Website: [https://labanimal-  
course-crete.weebly.com/](https://labanimal-course-crete.weebly.com/)

### Summer School Title: *Speech Processing Courses in Crete 2018*

#### Course Director:

Professor Yannis Stylianou

#### Time and Place:

**23-27 July 2018** Computer Science Department, Heraklion, Crete

#### Description:

The Speech Processing Courses in Crete (SPCC) are targeting to teach graduate students and researchers the latest advancements of speech processing covering theory, hands on, and establishing contacts between the academics and industry.

Website: <http://spcc.csd.uoc.gr>

### Summer School Title: *In country program "Modern Greek Studies"*

#### Course Director:

Chatzidaki Aspasia

#### Time and Place:

**July(three weeks program about 60 hours total)**  
Rethimno, University of Crete –Gallos Campus

#### Description:

Greek Language Lessons in Students learning greek as a Second or a foreign language

Website: <http://www.flinders.edu.au/ehl/languages-studies/departamental-sections/modern-greek/studying-abroad/studying-abroad-home.cfm>

## COMPUTER SCIENCE DEP.

## DEPARTMENT OF PRIMARY EDUCATION



DEPARTMENT  
OF ECONOMICS

**Summer School Title:**  
*Advanced Summer School in Economics  
and Econometrics*

**Course Director:**  
Professor Vangelis Tzouvelekas

**Time and Place:**  
15-22 July  
Rethymnon

**Description:**  
This course will introduce attendees to recent developments in semi- and nonparametric statistical and econometric methods. The emphasis will be on kernel-based approaches.

Website: [www.assee.eu](http://www.assee.eu)

**Summer School Title:**  
*2nd Crete Summer School of Linguistics  
(CreteLing2018)*

**Course Director:** Vina TSakali

**Time and Place:** 15-22: 16-27 July 2018  
Rethymnon, University Campus

**Description:** The orientation of the Creteling summer school is towards human cognition, that is, the study of language as a function of the brain. The target audience of CreteLing are students in linguistics and related fields (e.g. computer science, cognitive science, neurolinguistics etc.) and research and faculty members from various universities. The programme includes introductory courses and advanced seminars in theoretical linguistics (syntax, semantics, morphology and phonology), sign language and animal communication. Overall, the programme includes 16 different courses to choose from, while the schedule is structured in five consecutive class slots every day, each of which contains three parallel sessions.

Website: <http://www.phl.uoc.gr/confs/cssl18/>

**Summer School Title**  
*Modern Greek Language Program - Modern Greek Summer Course,  
July 2018*

**Course Director:** Georgia Katsimali

**Time and Place:** July 02, 2018-July 27, 2018 (80 teaching hours)  
Rethimno, University Campus

**Description:** Modern Greek language lessons to non-native speakers

website: <http://www.philology.uoc.gr/COURSES/moderngreek/>

DEPARTMENT  
OF PHILOLOGY





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Graphic design: Anna Arkoulaki - University of Crete



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