

Summer 2016 Course

The Mediterranean: Past, Present and Future: Summer course on the Geology, Biology and Resource Management of the Mediterranean

Sunday, August 7 – Thursday, September 1, 2016

This course will discuss the geologic processes that have shaped the Mediterranean. Topics covered will include the formation of the Eastern Mediterranean, geophysics of the Levantine continental shelf, biological oceanography of the Eastern Mediterranean and the ecology of unique habitats such as the rocky vermitid reefs, deep corals and gas seeps. Additionally, we will discuss how coastal and off-shore development affect, and are affected by, the geology and biology. Finally, we will discuss the impact of regional geopolitics on development and conservation of this sensitive region.

Course objectives:

- ◆ Provide students with an interdisciplinary introduction to the geology and biology of the Mediterranean
- ◆ Expose students to the affects coastal development, including the search for new energy sources and impact of global climate change
- ◆ Provide contextual understanding of geology, geochemistry and biology as related to coastal development
- ◆ In-depth lectures, field trips, a research cruise and advanced laboratory work

Field Trip Details

Field trip: Carmel

The exposed structure of Mt. Carmel was formed in the ocean. The field trip covers a wide range of topics in marine geology and how they are expressed on the present-day Mt. Carmel

Field trip: southern Israel (Negev, Dead Sea)

The field trip is dedicated to study the present and ancient lakes that developed along the Dead Sea fault since its formation.

Field trip: IOLR and The Mediterranean rocky shores at Dor nature reserve

We will start with a visit to the Israel Oceanographic and Limnological Research headquarters at Haifa to learn about the role of this governmental agency then continue to the nature reserve at Dor, performing ecological measurements on the vermetid reefs.

Field Trip: Summary - the Mediterranean, Past, Present and Future at Caesarea (power/desalination station and old city)

The summary trip will take us to Caesarea, the ancient port city. We will discuss the rise and fall of this city and how these are related to natural events (e.g. earthquakes, tsunamis) and the changes in geopolitical structure. We will visit the power and desalination plant to discuss how the need for power and drinking water affects the sea.

Admissions Requirements

This course is open to students who are interested in pursuing a master's degree at Marine Geosciences, in addition to students who have completed at least 2 years of relevant undergraduate studies.

Candidates must demonstrate the following:

- ◆ Applicants must have a background in Geology, Biology, Environmental Studies, or relevant field
- ◆ Minimum grade point average 3.0
- ◆ Excellent command of English language (Chinese students must provide one of the following exam results: CET-4 minimum score 550, CET-6 minimum score 425, or an equivalent, and will be evaluated by the University of Haifa program committee)
- ◆ Two letters of recommendation from relevant academic faculty members
- ◆ Personal statement essay
- ◆ CV/Resume
- ◆ Skype interview for English level



Academic Staff

- ◆ **Dr. Michael Lazar** (Supervisor) is co-head of the Seismic interpretation laboratory in the Department of Marine Geosciences at the University of Haifa and head of the International Program.
- ◆ **Dr. Daniel Sher** (Supervisor) heads the laboratory for marine chemical ecology at the University of Haifa. He has a PhD (cum laude) from the Hebrew University followed by a post-doc from MIT.
- ◆ **Dr. Or Bialik** is currently a postdoctoral fellow at the Department of Marine Geosciences.
- ◆ **Ms Michal Grossowicz** is at the last stages of her PhD studies in the department of marine biology.

Social and Cultural Activities

Students participate in activities with experienced university Social Activity coordinators, as well as take trips to Israel's tourist attractions, such as Jerusalem, Golan Heights, Bahai Gardens, etc. Students will immerse in the local culture, through Shabbat dinner meals, Israeli films, and other social activities. Students may also take advantage of visits around the city of Haifa and Israel.

Housing & Facilities

Federman Dorms are available to all students enrolled in the program. The dorms have apartments with three double rooms and a shared bathroom, kitchen, and living space. All public spaces in the dormitories have free WIFI Internet connections.

Admissions & Cost

Excellent undergraduate and graduate students are invited to apply at www.uhaifa.org. Under a unique Israeli Government Sponsorship, excellent students from China will receive a scholarship covering full tuition costs for the program, including housing in the University of Haifa dormitories. Nonrefundable registration fee of \$80 for application.

Registration Deadline: April 15th, 2016

Apply Now!

