



Field Studies

SCIENTIFICALLY TAILORED PROGRAMMES



**It's more
than just the
science.**

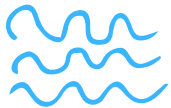
Field study is experiential, it creates opportunities that encourage critical thinking, long-term retention, transfer potential, positive attitudes towards science, appreciation for nature, and increased scientific curiosity.

Taking a class outside of the classroom can enhance the learning outcomes of any course by showcasing course content as it exists in the world. In many ways, these learning experiences can answer questions like “how does this apply to me and others?” and “ what does this look like in real life?”.



GEOGRAPHY Programmes

Coastal Processes & Management



The main objective is to understand the effluents management in coastal waters in association with the coastal processes. This will be categorised based on local coastal processes and environmental parameters involved.

Course Outline

We will start this study with a research question:

- To what extent has coastal management affected the profile of named beaches in the UAE?

Experiments to measure in each site:

- Beach profile (Break in Slope and Beach erosion)
- Longshore Drift
- Wave characteristics
- Particle Size and Infiltration Rate of the sand

All of these experiments will provide useful data to analyze and a wide understanding of the Coastal Behavior.

- Environmental Quality index (Bipolar chart)
- Field Sketch of the sites
- Conclusions

Urban Environments

Urban Environments examines urbanization and its associated social, cultural, economic, and demographic processes. Students will look at the structures and expressions of urbanization and urban life associated with modern and postmodern cities in the UAE.

Course Outline

Students will be visiting 3 different sites that has different characteristics.

Starting from Al Fahidi Historical District (a super tourist neighborhood, a rebranded place, lots of tourist and tourist infrastructures). Then, Al Fahidi street (a local neighborhood with old buildings and constructions, full with locals and local commerce). Lastly. Emirates Towers (in the heart of downtown, this area is modern with huge buildings, hyper touristic and with an important finance area).

Students will study the urban profile of this places and how they rebrand their characteristics to support the needs of the society.

Experiments to measure in each site:

- Land Use Survey
- Building Transect
- Building Functional Score
- Resource Capacity
- Local Services Quality
- Environmental Quality Index
- Index of Decay
- Field Sketch of sites
- Semantic Differential Scale
- Conclusions



BIOLOGY
Programmes

Mangroves Biology



Mangroves provide essential habitat for thousands of species. And with respect of global warming, mangroves play a major role in stabilising shorelines, preventing erosion and protecting the land for a long-term community stability.

Course Outline

The goal of this trip is to:

- Recognize the general characteristics of the Mangroves
- Teach different ways to do sampling and organize the data for Ecological Purposes
- Identify the importance of the Mangrove ecosystem in UAE
- Identify the biggest threats to Mangroves in UAE and the world
- The consequences of Mangrove removal

The Methods of investigation:

- Break in Slope in a Stratified and Systematic transect
- Random Sampling we will create a X and Y axis in a random place close to the Mangroves with random coordinates to the students and with
- Identify the local plants and identify the species presented in that random location
- Dominant particle size

Coral Reefs Biology



Coral reefs are a precious resource in the ocean because of their beauty and biodiversity. Coral reefs also provide shelter for a wide variety of marine life, a valuable source of organisms for potential medicines, they create sand for beaches, and serve as a buffer for shorelines.

Course Outline

We will start this study with a research question:

- To what extent has coastal development affected the health of coral reefs in the UAE?

Having that question in our objective now we can start doing some data collection to measure the diversity and condition of the coral reefs in the area.

Data collection methods:

- Percentage Coral Cover: using quadrant (steel grid with 100 squares), students will measure the approximate percentage coral cover, each square represent 1% of cover.
- Percentage of sand, rocks and algae
- Reef impacts: As we measure the percentage cover of coral reefs we can also look at the quality of corals; Signs of Trampling, Sedimentation, Bleaching and Disease.
- Fish point Survey: with a specialized Fish ID of the species in the area the students are going to record the abundance and species richness of the fish community.
- Abiotic factors and more

Price Guide



For CORAL REEFS BIOLOGY, an additional of 150 AED will be applied.

A. DAY TRIP

595 AED

B. TWO DAYS & ONE NIGHT

1200 AED

B. THREE DAYS & TWO NIGHTS

2300 AED

Everything you need

WE GOT IT COVERED

- **Field Studies Operations Manager**, that will tailor a programme to suit your needs.
- **Field Studies Instructors**, dedicated and experts who will facilitate, guide and assist students in proper use of techniques and equipment.
- **Equipment for data collection** (depending on course chosen - e.g. anemometer, clinometer, ranging poles, quadrants, snorkels, buoyancy aid etc.)
- **Field Study Booklets**
- **Transportation** to and from schools and field study sites
- **Insurance** for all participants
- **Meals**



RESIDENTIAL Accommodation

You could also try a residential or two day programme where we can provide multi day immersive educational experience.

We have partnered up with **Bab Al Nojoom - Al Mugeirah** in Abu Dhabi as our official Field Study Residential accommodation, which will provide us an access to sites for an in-depth learning/investigation/research without compromising the comfort of the students after a long day of field work.



Reach Us.

To begin your field study trips with us please contact our **Field Studies Managers:**

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We look forward to hearing from you soon.

