

再興中學2010美東教育學習之旅

第八日→7月14日

Adelphi大學第三天的學習: experiment

三組同學分別體驗了不同的實驗: Fish Biology, Microbes, Life in water.



Dr. Andie於課前和同學討論昨天
field trip所看到有關海洋生物資料

Jellyfish組: Fish Biology

Wow ! It's real shark !



Jellyfish組: Fish Biology



Take a close contact with shark



Flounder 組:Microbes

手上拿的
是蛋喔



Dr. Jonna 先教同學認識顯微鏡



接著到實驗室實際操作並教導製作微生物培養土



Flounder 組:Microbes



Flounder 組:Microbes



Crab 組: Life in water



Dr. Aaren 先以投影片及影片說明浮游生物對海洋環境的影響及其生態



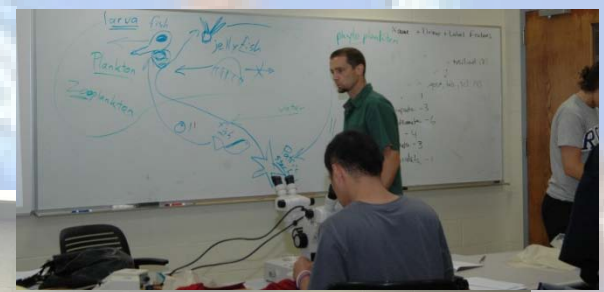
同學們仔細做筆記



Crab 組: Life in water



觀察 plankton



餵食 plankton



模擬製作 plankton 做浮力測試



體驗深海的溫度



學生心得分享

Class of Marine Science

By Oliver 廖偉成

Marine Science? What a cool name to me. I less heard this name in Taiwan. In the morning, I had a great mood to meet and greet the class. It was my first formal class in University in America. Walking into the laboratory, to come into my view were microscopes and planktons. Later I saw the professor waiting for us with a smile. It was a warm and fragrant feeling. Immediately, we started today topic subject "plankton in the ocean". With a precise illustration, we knew more about plankton structure and exercise mode. The most attractive thing to me is to make experiments. One of them is to observe plankton digestion system. It really a cool experience to me. In Taiwan, we had less opportunity to make science experiment. I really cherish that I can come to such a professional laboratory to make an experiment. The whole class is very fun and interesting. I like this way of teaching and learning. I hope that I can be better when I leaved the America. It's really good.

心得

By Arthur 林大慶

Today is my first day to have Dr. Aaren's class. It was so interesting. We were learning about the main marine food source — planktons. They are very important to the whole marine food web. Planktons have "zooplankton" & "phytoplankton" two kinds of species. I watched those strange but funny looking creatures in the microscope. During the class, I also experienced the different feelings by putting a glove filled with fat into a tank filled with icy water and another bare hand instead. It was so cold that I nearly screamed out loud! The most exciting part is the sinking race. We have to use a cube of clay to create a model of a plankton, the one who can float on the water is the winner. (no one actually wins) Anyway, I had a great time and I learned a lot today.



The class of the plankton

By Bob 薛博元

Today is the first class in Adelphi University, it's about the plankton and its nature enemy, like whales, dolphins; there were lots of fun and we learned a lot of things, not only knowledge but also a lot of experience, which is the most important. The curriculum of today's class is not so difficult for us; actually it's almost the same as the curriculum which we'll have been learning in the senior high school in the future. And today we learned some thing interesting such as plankton is not only the creatures that only float on the top of the ocean; not only the ones which looks small. To determine plankton, it depends on its "swimming skills", if it can't swim well it can't swims against the current. It's plankton. No wonder that clams are plankton. But actually a jellyfish is plankton too, same as the larva of the fish which it doesn't even swim when it's small, it just follow the current, where ever the current goes it just follow it. As the lesson started we make some fun experiment. We use the micro scope to see some plankton which lives in the middle of the Pacific Ocean. It's not too much but I'm sure that they are energetic, they keep moving and it's hard for me too catch them just for five minutes. The second experiment we use a glove which it simulate like dolphin's or whales body skin. It can stay worm in a place which is almost 0 degree and still can move comfortably. And we even have a race that we have to try to put our hands into the water as long as we can. And our teaching assistants take a part in this race. Well he beat every body for sure and I made 125 seconds which is the longest record of all the students. But it really hurts my finger it's still no feeling with my fingers. And the last experiment is how to make a motel of plankton, well it's pretty hard, most of us can't even make it stay for three seconds, except the professor, he made an example which can even float on the top of the water! Pretty impressive. It's really a fun class and a nice started of the class in Adelphi University.



下午課程: 觀賞影片 Blue Planet



老師們討論並整理早上課程以協助學生晚上複習瞭解

生活點滴 in today



開心上完課, 課後與TA聊天



準備吃飯去囉

