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# Course Overview

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Last requirement



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Marine Geology

## **Course overview:**

This course have many basic concepts related with marine geology and almost covered all topics related with the marine geology and provided a brief idea about geological cycles, geological structures, plate tectonics and tectonic structures. Geological processes, seafloor spreading phenomenon and continental drift are the major key topics which are briefly discussed in this course. We learned different methods to study the earth's ocean, seafloor feature and structural geology below the ocean which include seismic reflection which is my research background. Last three weeks are included earthquake, tsunami and effect of disaster at coastal areas are briefly discussed which was help to identify the disaster and how to prevent from massive losses by the seismic waves information. Marine resources and hydrothermal system are the most important topic which are related with my research work.

## **What I learned:**

Currently I am working on OBS and multichannel seismic data that is acquired from South China Sea. Data acquired by 29 OBS and it covered almost 600 km. The basic purpose of my research is to interpret the oceanic crust thickness, velocity structures and Moho depth variations. From this course, I got briefly idea about the tectonics activity below the ocean and which factors are effecting the tectonics and how I can relate my research work with mineral Exploration and to predict the earthquake. The key significant topic for my research work was sea floor spreading and subduction zone because due to these phenomenon, there is variation in crust thickness and Moho depths. Also for me, the topic about hydrothermal system was so amazing and informative because Teacher shared a lot of information about this.

## **Exam and Teacher Behavior:**

In this class, we had to give presentation and submit three home work and topics selected for these homework are so general and important for all students with any major fields. The homework pattern was recommended according to an international report including abstract and references. So we learned many things from recommended pattern which include how to read different research papers and collect related data and get summarized result.

Dr. Chen is a good teacher and good to deliver the lectures in a best and friendly way. The most important point about the class was videos related with each topics that give better understandings.

Even many students have no background related with marine geology but I hope, everyone get some ideas for their research in marine sciences from this course.

### **Some Suggestions:**

Overall class environment was perfect and friendly. In this class, many students are from different majors including engineering and biology. It was difficult for them to understand details concepts about marine geology. It will be better if we design the course with specify some general and related topics so that it can useful for all students.

The topics for homework was so good but it was easy for students that have background related with geology so I think, it will be better that if students have some choice to select suitable topic for homework which maybe close to their research background.

Mostly students learned and understand many concepts from videos provided during the classes. It will be better that if teacher provide a video about each topic before the class so that everyone get some idea that what we are going to study.