

## **GEOG2097 Global Landforms (6 credits)**

**Course Teacher: Dr Angel K Y Ng**

### **Objectives**

To provide an introduction to major concepts of earth surface internal and external processes and the associated landforms by a visualization strategy.

### **Course Synopsis**

This course is a core element in physical environmental study. The course provides a systematic description and analysis of earth surface landscapes and the processes that create them. Given that the Earth's land surface is located at the interface of the lithosphere, atmosphere, hydrosphere and biosphere, this study is closely related to a wide range of disciplines of natural environments. Topics discuss landforms and their processes in different environments, including slope, fluvial, coastal, glacial and arid locations. The landforms created by tectonic movement and the techniques in geomorphology are also studied.

### **Lecture Topics**

- Global tectonics and Earth surface relief
- Tectonic structures and landforms
- Volcanicity and landforms
- Weathering, erosion, transport and deposition
- The processes and forms in slope, fluvial, coastal, glacial, aeolian environments
- Techniques and field investigation

### **Fieldwork**

One field trip.

### **Assessment**

Examination (two hours) 60%; coursework 40% (consists of field trip report).

### **Learning Outcomes**

Knowledge:

- Provide an introduction to major concepts in geomorphology
- Familiarise students with important landform processes
- Introduce geomorphic methods and techniques

Skills:

- Field observation and analysis
- Writing of a field trip report
- The ability to understand scale

### **Recommended Reading List**

1. Carter, R.W.G. (1989) *Coastal Environments*. Academic Press.
2. Easterbrook, D.J. (1993) *Surface Processes and Landforms*. MacMillan Publishing Company.