Course Syllabus

1.	**Program of Study**	Bachelor of Science Program Bachelor of Arts Program Bachelor of Business Administration Program Bachelor of Nursing Science Program
	Faculty/Institute/College	Mahidol University International College
2.	**Course Code**	ICNS 161
	Course Title	General Geology
3.	**Number of Credits**	4(4-0-8) (Lecture/Lab/Self-Study**)**
4.	**Prerequisite *(s)***	None
5.	**Type of Course**	General Education Course
6.	**Session**	1st Trimester
7.	**Conditions**	**-**

8. Course Description

Concepts of how continents and land are shaped, rock formations, fossil fuels, underground water, minerals and gems, usage of resources and sustainability.

9. Course Objective *(s)*

After successful completion of this course, students should be able to

9.1 introducing basic principles of Geology

9.2 familiarize students with local geology and abroad

9.3 enable students to pursuit on their advanced courses in geology

9.4 enable students to relate geology to be utilized in their field of interest in their major

9.5 introducing current geologic events such as earthquake, volcanism, real time at real world.

10. Course Outline

Week	Topic	Hour			Instructor
		Lecture	Lab	Self-Study	
1	Definitions, Importance of Geology to Environment, Branches of Geology, Earth Sphere, Lithosphere, Hydrosphere, Atmosphere, Biosphere	4	0	8	Pongpit Piyapongse
2	Earth's size shape and surface features Laws and Theories in Geology Theory of Plates Tectonic	4	0	8	Pongpit Piyapongse
3	Minerals and Rocks Mode and Occurrence of Minerals, and rocks. Rock Types	4	0	8	Pongpit Piyapongse
4	Geologic processes Weathering, Mass Wasting, Erosion, Earthquake, Volcanism, Geothermal, Extraterrestrial process	4	0	8	Pongpit Piyapongse
5	Geologic structures Diastrophic and Non-Diastrophic structures	4	0	8	Pongpit Piyapongse
6	Midterm Examination	4	0	8	Pongpit Piyapongse
7	Historical Geology Fossils, Geologic Time Scale	4	0	8	Pongpit Piyapongse
8	Soil Formation Soil forming factors, Soil forming process. Soil Resources of Thailand.	4	0	8	Pongpit Piyapongse
9	Rivers Hydrologic cycle and work of stream Fluvial Geomorphic cycles, Drainage patterns	4	0	8	Pongpit Piyapongse
10	Ocean Marine Environment, Zone of Depth Wind, Waves and Current, Dynamic of marine forces, Shoreline Classification.	4	0	8	Pongpit Piyapongse
11	Geology of Thailand Geologic resources, Scenic resource, Geomorphology of	4	0	8	Pongpit Piyapongse

	Thailand for Tourism				
	Total	4	0	8	Pongpit Piyapongse
Final Exanimation					

11. Teaching Method *(s)*

11.1 Lecturing.

11.2 Student's individual projects.

12. Teaching Media

12.1 Transparencies.

12.2 Handouts.

13. Measurement and evaluation of student achievement

Student achievement is measured and evaluated by

13.1 the ability to introducing basic principles of Geology

13.2 familiarize students with local geology and abroad

13.3 enable students to pursuit on their advanced courses in geology

13.4 enable students to relate geology to be utilized in their field of interest in their major

13.5 introducing current geologic events such as earthquake, volcanism, real time at real world.

Student's achievement will be graded according to the faculty and university standard using the symbols: A, B+, B, C+,C,D+, D, and F.

Students must have attended at least 80% of the total class hours of this course.

MUIC standard grading criteria: 90% and above is grade A

Ratio of mark

1. Midterm Examination 40%
2. Student's project display 20%
3. Final Examination 40%

Assessment made from student's performance averaging from Midterm examination, Project Display and Final Examination. Student who gets 90% up will have Grade A.

14. Course evaluation

14.1 Students' achievement as indicated in number 13 above.

14.2 Students' satisfaction toward teaching and learning of the course using questionnaires.

15. Reference *(s)*

James Gilluly, Aron C. Waters, A.O. Woodford .Principle of Geology . Fourth Edition W.H. Freeeman and Co. San Francisco ;1975

Brian J. Skinner, Stephan C. Proter, Second Edition.The Dynamic Earth. John Wiley and Sons.Inc. New York 1992

Reed Wicander, James S. Monroe, Wadsworth. Essential of Geology . Publishing Company. ITP. 1999

Current Proceedings and Reports.

16. Instructor *(s)*

16.1 Associate Professor Pongpit Piyapongse
Two Guest Lecturers Chapter 7, 10

16.2 Ian Grange

16.3 Dr.Prinya Phuthapiban

17. Course Coordinator

Laird Allan