

**ISHIK UNIVERSITY**  
**FACULTY OF EDUCATION**  
**Department of PHYSICS EDUCATION,**  
**2018-2019 Spring**  
**Course Information for PHYS 272 EARTH SCIENCE**

<b>Course Name:</b>		EARTH SCIENCE				
<b>Code</b>	<b>Course type</b>	<b>Regular Semester</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Credits</b>	<b>ECTS</b>
PHYS 272	2	4	3	-	3	4
<b>Name of Lecturer(s)- Academic Title:</b>						
<b>Teaching Assistant:</b>		NA				
<b>Course Language:</b>		English				
<b>Course Type:</b>		Area Elective				
<b>Office Hours</b>		Thu. 13:30-14:30				
<b>Contact Email:</b>		i i . i . i				
		Tel:				
<b>Teacher's academic profile:</b>		Asst. Lecturer				
<b>Course Objectives:</b>		This one semester course is designed to familiarize the student with the principles and theories in the earth sciences. Our related topics/fields will include: Geology (Basic concepts of seismology and internal structure of the Earth. study of minerals, rocks, earthquakes, volcanoes and plate tectonics), Meteorology (study of the atmosphere, climate, and climate change), and Oceanography (study of the oceans and water systems). The course will be taught by a combination of lectures, visual aids, and videotapes.				
<b>Course Description (Course overview):</b>		This one semester course is designed to familiarize the student with the principles and theories in the earth sciences. Our related topics/fields will include: Geology (Basic concepts of seismology and internal structure of the Earth. study of minerals, rocks, earthquakes, volcanoes and plate tectonics), Meteorology (study of the atmosphere, climate, and climate change), and Oceanography (study of the oceans and water systems). The course will be taught by a combination of lectures, visual aids, and videotapes. Earth science is the study of the world around you. You will be enabled to learn the 'how' and 'why', not just the 'what' of earth science. I will show how Earth Science is relevant in your everyday life; you must provide the willingness to learn.				

**COURSE CONTENT**

<b>Week</b>	<b>Hour</b>	<b>Date</b>	<b>Topic</b>
1	3	3-7/2/2019	How the Earth Works
2	3	10-14/2/2019	What the Earth is Made of
3	3	17-21/2/2019	Water on the Earth
4	3	24-28/2/2019	Water on the Earth
5	3	3-7/3/2019	Glaciers and Ice Ages
6	3	26-28/3/2019	Earthquakes and Volcanoes
7	3	31/3-4/4/2019	Earthquakes and Volcanoes
8	3	7-11/4/2019	Mountain Building and Crustal Movements
9	3	14-18/4/2019	Midterm Exam
10	3	21-25/4/2019	Mountain Building and Crustal Movements
11	3	28/4-2/5/2019	Ashort history of the Earth
12	3	5-9/5/2019	Ocean Currents and Tides
13	3	12-16/5/2019	Basic Properties of the Atmosphere

14	3	19-23/5/2019	The Solar System
15	3	26-30/5/2019	Stars and Galaxies
16	3	9-13/6/2019	Final Exam
17	3	16-20/6/2019	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	To help students acquire the knowledge about Earth Science (the study of the world around you). Acquired a broad understanding of the major systems of the Earth, and of the approaches used to understand them		
2	To introduce the geological processes of the Earth. Learn to identify and diagnose a range of geological materials		
3	Describes applications of Earth Science which affect society or the environment		
4	Identifies the origins of Earth's resources		
5	Discusses the interplay between the internal and external forces which constantly reshape the Earth's surface		
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced )			
Program Learning Outcomes			Cont.
1	Demonstrate the ability to perform theoretical calculations in basic areas of physics (Mechanics, Electricity & Magnetism, and Modern Physics).		P
2	Demonstrate quantitative and qualitative analysis of physical problems.		P
3	Proficient with equipment and procedures used to acquire and analyze data of physical phenomena through performance in laboratory activities.		P
4	Perform analysis and calculations based on experimental data, draw and present valid conclusions, and process and visualize their data.		P
5	Report in written format the results of their calculations, research projects, and reading of technical literature.		P
6	Create and effectively present on oral report on the results of their calculations, research projects, and reading of technical literature.		P
7	Know about their career options, what skills and experiences are required for those careers, and are able to develop a resume that advances them towards their career goals.		P
Prerequisites (Course Reading List and References):		NA	
Student's obligation (Special Requirements):		Attending 80% of the course is mandatory. Participation in class activities is encouraged. Students are responsible for materials given in class. Students are responsible for assignments. Students must bring their own calculators.	
Course Book/Textbook:		"Holt Earth Science" Rinehart and Winston	
Other Course Materials/References:		"Earth Science" 14th Edition by Edward J. Tarbuck. "Earth Science: Geology, the Environment, and the Universe" by McGraw-Hill Education.	
Teaching Methods (Forms of Teaching):		Lectures, Presentation, Project, Assignments, Demonstration	
COURSE EVALUATION CRITERIA			
Method	Quantity	Percentage (%)	
Participation	1	10	
Quiz	2	5	
Homework	5	2	
Midterm Exam(s)	1	30	
Final Exam	1	40	
Total		100	
Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching			
Extra Notes:			

**ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD**

<b>Activities</b>	<b>Quantity</b>	<b>Duration (Hour)</b>	<b>Total Work Load</b>
Course Duration (Including the exam week: 16x Total course hours)			0
Hours for off-the-classroom study (Pre-study, practice)			0
Assignments Mid-terms			0
Final examination			0
Other			0
<b>Total Workload</b>			<b>0</b>
<b>ECTS Credit (Total workload/25)</b>			<b>0</b>

**Peer review**

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean