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國立東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese				學年/學期 Academic Year/Semester	114/1
課程名稱(英文) Course Name in English	Physical Geology				
科目代碼 Course Code	CES_10920	系級 Department & Year		開課單位 Course-Offering Department	
修別 Type	Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/				
先修課程 Prerequisite					

課程描述 Course Description

課程目標 Course Objectives

圖示說明Illustration ：● 高度相關 Highly correlated ○中度相關 Moderately correlated

授 課 進 度 表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	(Brief Introduction & Prelude: And Just What Is Geology?)- (11/8)	
2	(Chapter 1 Cosmology and the Birth of Earth)	
3	(Chapter 2 Journey to the Center of the Earth)	
4	(Chapter 3 Drifting Continents and Spreading Seas)	
5	- (Chapter 4 The Way the Earth Work: Plate Tectonics)	
6	- (Chapter 5 Pattern in Nature: Minerals) A: (Interlude A:Introducing Rocks)	
7	- (Chapter 6 Up from the Inferno: Magma and Igneous Rocks)	
8	(11/8)	
9	Midterm Exam 11/8	
10	B: (Interlude B: A Surface Veneer Sediments and Soils) - -1(Chapter 7 Pages of Earth ' s Past: Sedimentary Rocks-1)	
11	- -2(Chapter 7 Pages of Earth ' s Past: Sedimentary Rocks-2)	
12	(Chapter 8 Metamorphism: A Process of Change)	

13	C: (Interlude C: The Rock Cycle in the Earth System) : -1(Chapter 9 The Wrath of Vulcan: Volcanic Eruptions-1)	
14	: -2(Chapter 9 The Wrath of Vulcan: Volcanic Eruptions-2)	
15	- (Chapter 11 Crags, Cracks, and Crumples: Crustal Deformation and Mountain Deformation)	
16		
17		
18	Final Exam	

教 學 策 略 Teaching Strategies

☑ Lecture ☑ Group Discussion ☑ Field Trip

☐ Miscellaneous:

教 學 創 新 自 評 Teaching Self-Evaluation

(Innovative Teaching)

☐ (PBL) ☐ (TBL) ☐ (SBL)

☐ Flipped Classroom ☐ Moocs

(Social Responsibility)

☐ Community Practice ☐ Industy-Academia Cooperation

(Transdisciplinary Projects)

☐ Transdisciplinary Teaching ☐ Inter-collegiate Teaching

☐ Courses Co-taught with Industry Practitioners

other:

學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
(　　) General Performance (Attendance Record)	10%	✓		✓					
Midterm Exam	30%	✓							
Final Exam	40%	✓							
Homework and/or Assignments	20%		✓	✓					
Miscellaneous (_____)									

評量方式補充說明
Grading & Assessments Supplemental instructions

教科書與參考書目（書名、作者、書局、代理商、說明）
Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Stephen Marshak. (2018) Earth: Portrait of a Planet (6th edition). W. W. Norton & Company, New York, London.

Grotzinger, J. and Jordan. T. (2010) Understanding Earth (6th edition). W. H. Greeman an d Company, New York.
Skinner, B. J.and Porter, S. C. (2000) The Dynamic Earth: An Introduction to Physical Geology. 4th Edition. John Wiley and Sons. U.S.A. 575 pp.
(1981)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)
Teaching Aids & Teacher's Website(Including online teaching information.
Personal website can be listed here.)

其他補充說明 (Supplemental instructions)