Earth Science

ESCI 106 Earth and Space Science for Educators 4 Units

Prerequisite: MATH 130.
Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
This course provides each prospective multiple subject teacher with an introductory survey of the fundamental concepts of Earth and space science and the interrelationships among these disciplines. Emphasis will be placed upon the comparative study of the Earth and the other planets, their formation and evolution, Earth's atmosphere, hydrosphere, and lithosphere; the dynamics of each, and how they are interrelated. This course is recommended for students planning to take the CSET Multiple Subject Exam to bcome credentialed elementary school teachers in the State of California. 54 lecture hours, 54 lab hours.
CSU

CRN	Instructor	Days	Time	Room	D
21071	Hathaway, G.	MW	09:55 AM-11:20 AM	LH 102	08/27-12/17
	Hathaway, G.	M	11:30 AM-02:40 PM	TC 122	08/27-12/17

ESCI 118 Physical Geography 3 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
A study of the basic physical elements of geography; maps, seasons and time, weather, climate, soils, natural vegetation, and land forms, and their relationships and distribution upon the face of the earth. 54 lecture hours. CSU UC

CRN	Instructor	Days	Time	Room	D
20430	Johnson, D.	MW	05:25 PM-06:50 PM	LH 102	08/27-12/17
20425	Wagner, A.	TR	05:25 PM-06:50 PM	LH 102	08/27-12/17

ESCI 120 Physical Geology 4 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
An elementary study of the Earth, particularly of its materials and structure, and of the physical and chemical processes at work upon and within it. 54 lecture hours, 54 lab hours. CSU UC

CRN	Instructor	Days	Time	Room	D
20441	Hathaway, G.	TR	09:55 AM-11:20 AM	LH 102	08/27-12/17
Lecture section only. Lab section also required.					
20449	Hathaway, G.	T	11:30 AM-02:40 PM	TC 122	08/27-12/17
Lab section only. Lecture section also required.					
20810	Hathaway, G.	T	02:50 PM-06:00 PM	TC 122	08/27-12/17
Lab section only. Lecture section also required.					
20694	Hathaway, G.	W	11:30 AM-02:40 PM	TC 122	08/27-12/17
Lab section only. Lecture section also required.					
20454	Hathaway, G.	R	11:30 AM-02:40 PM	TC 122	08/27-12/17
Lab section only. Lecture section also required.					

ESCI 122 Geology: Earth History 3 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
An introduction to the study of the Earth's geological history, from the origin of our planet to the present. Topics include the history and development of life, processes of fossilization, the origin of coal and petroleum, and plate tectonics with emphasis on North America. 54 lecture hours. CSU UC

CRN	Instructor	Days	Time	Room	D
20712	Hathaway, G.	MW	08:20 AM-09:45 AM	LH 102	08/27-12/17

ESCI 130 Physical Oceanography 3 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
A study of marine geology and topography, physical processes within the marine environment, such as waves and currents, tides, sea-floor spreading, marine provinces, marines sediments, and environmental relationships.
54 lecture hours. CSU UC

CRN	Instructor	Days	Time	Room	D
20393	Wagner, A.	T	07:00 PM-10:10 PM	LH 102	08/27-12/17
21072	Hollenshead, M.	W	07:00 PM-10:10 PM	LH 101	08/27-12/17

ESCI 180 Introduction to Geographic Information Systems 3 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
An introduction GIS course that will teach the theory and use of GIS software in a number of fields including business, resource management, Earth Sciences, and urban planning. Recommended for anyone using spatial data in their profession. 36 hours lecture, 90 hours lab. CSU UC

CRN	Instructor	Days	Time	Room	D
20379	Kang, H.	MW	06:00 PM-07:05 PM	IS 110	08/27-12/17
	Kang, H.	MW	07:05 PM-09:35 PM	IS 110	08/27-12/17