

GEY 118 ROCK AND MINERAL IDENTIFICATION

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**CLASS TIMES: 9/16 5-10:00 PM, 9/17, 8 AM-5:30 PM
ROOM 2573**

REQUIRED TEXT: SIMON AND SCHUSTER GUIDE TO ROCKS AND MINERALS

RECOMMENDED TEXTS:

SORELL, ROCKS AND MINERALS

PLUMMER, CARLSON, and HAMMERSLEY, PHYSICAL GEOLOGY, ANY RECENT EDITION

ANY RECENT, DECENT PHYSICAL GEOLOGY TEXT OR LAB MANUAL.

COURSE DESCRIPTION:

THE FUNDAMENTALS OF MINERAL AND ROCK IDENTIFICATION AND FORMATION WILL BE TAUGHT AS HANDS-ON EXPERIENCE WITH MINERAL AND ROCK KITS. THE IDENTIFICATION SESSION WILL BE FOLLOWED BY A SHORT FIELD TRIP TO SEE THE VARIOUS ROCK TYPES THAT ARE SO WELL EXPOSED IN THE GOLDEN AREA.

THE STRUCTURE AND LITHOLOGY OF THE FRONT RANGE WILL BE DISCUSSED.

GRADING:

EACH STUDENT WILL BE GRADED ON SUCCESSFUL OF IDENTIFICATION OF THE UNKNOWN MINERALS AND ROCKS USING IDENTIFICATION KEYS AND EQUIPMENT. (60%)

IN ADDITION, THE STUDENT WILL COMPLETE WITH COLLEGE-LEVEL ESSAYS THESE HOME STUDY QUESTIONS. (40%)

- 1. DEFINE MINERAL AND DESCRIBE THE PROCESS OF IDENTIFICATION USING PHYSICAL PROPERTIES.**
- 2. DEFINE THE MAJOR ROCK TYPES AND RELATE THEM USING THE ROCK CYCLE**
- 3. SHOW, USING A CROSS-SECTION, THE DISTRIBUTION, NAMES, AND AGES OF THE ROCKS EXPOSED ALONG I-70 BETWEEN LAKEWOOD AND SILVERTHORNE**

FRIDAY 5-9:50

MINERAL ID

SATURDAY 8-2:00

ROCK ID

SATURDAY 2-5:30

FIELD TRIP (Car pool, waiver required)

Refer to Student handbook for policies concerning academic honesty. In general, a zero tolerance policy applies which may result in getting a zero on the assignment, failing the class, or expulsion from college.

Students with disabilities will be accommodated, but prior arrangements must be made with Jackie Stanton, Office of Special Services, Rm. 1182, LRC