**EAS 23700-R(87819)/EAS C0300-R(89289): Mineralogy**

**Description**: This class is designed to introduce general concept of mineralogy, including descriptive mineralogy, classification, crystallography, crystal chemistry, analytical and imaging methods and some information of the geological occurrence. This class also includes a lab component, which provides a hand-on opportunity for students to learn how to describe and identify minerals. This class prepares students for more advanced classes including Petrology, Geochemistry, Structural geology, Igneous and metamorphic petrology, Mineral physics, Economic geology, Environmental mineralogy and geology.

3 lecture hour/week and 1 lab/week; 4 credits

**Lecture Time**: Tuesdays and Thursdays, 11:00 am-12:15 pm

**Location**: Marshak 037

**Lab Time:** Tuesday, 9:00 - 10:45 am

**Location:** Marshak 037

**Text books**: Manual of mineral Science: 23rd Edition by Cornelis Klein and Barbara Dutrow.

**Class policy and grades**: Attendance to the class is strongly encouraged. The final grade is based on 30% homework + 20% lab work + 20% mid-term + 30% final. Mid-term exam will be a 1.5-hour closed-book, closed-note exam, final is a 3-hour closed-book and closed-notes exam. Graduate students are expected to finish a small project and hand in a 10-page long Journal-style term paper.

**The conversion from points to letter grades** is done as follows:

A+ >97 C+ 77-80

A 93-97 C 73-77

A- 90-93 C- 70-73

B+ 87-90 D 60-70

B 83-87 F < 60

B- 80-83