## **Genetics (2 credits)**

New Mexico Institute of Mining and Technology MST Program--online

## **INSTRUCTOR:**

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## **COURSE DESCRIPTION:**

An overview of the storage, transmission and expression of biological information. This course introduces basic concepts in prokaryotic and eukaryotic genetics, including genome organization, DNA replication, recombination, repair, and regulation of gene expression. Topics considered include the genetic basis of heredity, the fundamental role of DNA recombination, repair, and mutagenesis in creating genetic variability within populations, and the importance of genetic variability and natural selection in party before the last day to add classes (no exceptions). Failure to provide a proctor will result in being dropped from this class.

**Tentative Schedule**—Please note that homework is organized by chapter in the book. Some lectures cover additional problems for a chapter in the next lecture (see "Material covered in lecture" below). In other words, you may want to watch the beginning of the next lecture before starting the homework, in those cases where the problems go into the next week. It is perfectly all right to