

Program Requirements**CHEM 121 General Chemistry I 4 Credits**Fundamentals of chemistry including reaction stoichiometry, atomic structure, chemical bonding, molecular structure, states of matter, and thermochemistry.
ECON 102 Prin of Microeconomics 3 Credits

Study of the causes and effects of individuals' choices among alternative uses of scarce resources. Topics include supply and demand analysis, price determination, theories of various market structures, competition and coordination, labor, the role of profit and interest, and government involvement in the economy.

GEOL 101 Exploring Planet Earth 3-4 Credits

Fundamental principles of geology including tectonic and surficial processes, oceans, atmosphere, environmental applications, and resources. Includes a laboratory component.

MET 101 Intro to Metallurgical Engr 1-2 Credits

This course acquaints students with the fundamentals of extractive metallurgy processes. Lectures on the course provide students with the knowledge of the key concepts of extraction and purifying metals from ores obtained through mining operations as well as secondary resources.

MET 102 Intro to Metallurgical Engr II 1-2 Credits

The course acquaints students with the fundamentals of extractive metallurgy processes. Lectures on the course provide students with the knowledge of the key concepts of mineral processing, extraction and purifying metals from ores obtained through mining operations as well as secondary resources. Freshman year experience course to include development of analytical skills in spreadsheets on process flowcharts relating to mining, minerals, metals, mineral processing, metallurgical operations and basic engineering principals are covered.

MINE 101 Mining Engineering I 1-2 Credits

Freshman year experience course providing an introduction to the mining industry, the mining engineering and related disciplines and career paths for mining engineers.

MINE 102 Mining Engineering II 1-2 Credits

Foundational computer skills needed in upper division engineering classes including spreadsheet programming, large data analysis, engineering drawing, mathematical programming, and an introduction to mine design software.

MINE 210 Mining Methods 2 Credits

This sophomore class builds on MINE 101 and offers information on mining methods and systems with emphasis on conventional surface and underground mining methods with a brief overview of less common or novel mining methods and systems. The course discusses the various stages in the life of a typical mine (surface and underground), equipment characteristics, equipment selections, and introduces typical terminologies of surface and underground operations, providing an introduction to the mining industry, the mining engineering and related disciplines, and career paths for mining engineers.

Suggested Course Sequence

1st Semester - Fall

Course Credits MINE 101 1 MET 101 1 ECON 102 3 TOTAL 5

2nd Semester - Spring

Course Credits MINE 102 1 PSY 208 3 MET 102 2 TOTAL 6

3rd Semester - Summer

Course Credits MINE 210 2 TOTAL 2

4th Semester - Fall

Course Credits Mathematics* 3 GEOL 101 4 ENG 101 3 TOTAL 10 *Choose with advisor

5th Semester - Spring

Course Credits MATH 127 3 CHEM 121 4 ENG 102 3 TOTAL 10