

## **Michigan Technological University**

### **Minor in Mining Engineering**

Program Code EMGM, Academic Year 2023-24

Department of Geological and Mining Engineering and Sciences

Total Credits Required: 18

#### **Required Courses: 6 credits**

- GE 2020 Intro to Mining Engineering and Mining Methods (2) *Prereqs: none*
- GE 2320 Mining Methods and Systems (2) *Prereqs: GE2020*

#### **Elective Courses: 12 credits**

- GE 3400 Drilling and Blasting (3) *Prereqs: GE2020 and PH2100*
- GE 3890 Eng Geology & Rock Mechanics (3) *Prereqs: (GE2000 or GE2100) and (GE3050 or ENG2120 or MEEM2150)*
- GE 3870 Resource and Reserve Estimation (3) *Prereqs: GE2020 and MA3710*
- GE 3880 Mine Planning and Design (3) *Prereqs: GE2320 and GE3400 and GE3870*
- GE 4290 Mine Ventilation Engineering (3) *Prereqs: GE2020 and GE2320 and ENG3200*
- GE 4360 Bulk Materials Dynamics & Engineering (3) *Prereqs: PH2100 and GE2320 and ENG2120*
- GE 4680 Operations Research for Mining Engineers (3) *Prereqs: GE2020 or GE2320*
- GE 4934 Special Topics in Mining Engineering (1-5) *Prereqs: none*

#### **Additional Electives: 0 to 5 credits**

Students must consult with a departmental advisor to select additional elective courses