Mining Education at the University of Arizona
Brief History

University of Arizona was established in 1885
School of Mines was created in 1888
In a proposal in 1889, Board of Regents designates UA as 'College of Agriculture'
   dropping the name 'School of Mines'
   Professor Frank Gully is hired as Director of the Experiment Station
In 1891, Gully recruits additional faculty including his counterpart to head the School of Mines
   Theodore Comstock is hired as Director of School of Mines
Comstock becomes President of The University of Arizona in 1894
   Comstock fires Gully
Comstock resigns from the University in 1895
UA Mining & Geological Engineering

- Only 14 accredited U.S. mining schools (UA Ranks “Top 3”)
- One of the founding colleges of the University of Arizona (1885)
- Close proximity of operating mines (San Xavier Mission Mine)
- Access to technology and equipment
- Prestigious international reputation
UA Mining Engineering Degree

- Geomechanics
- Sustainable Resource Development
- Mine Operations
- Mineral Processing
Geomechanics

• **Challenge:** Go deeper

• **Responsibility:** Design & construction of open pit and underground mines, tunnels and waste storage

• **Career opportunities:** Mine design, underground construction, consulting

• **Classes:** Geology, rock mechanics, soil mechanics, hydrology, etc.
Sustainability

• **Challenge**: New way of doing business

• **Responsibility**: Global impact, help companies achieve social license, partner with communities

• **Career opportunities**: Environmental engineer, safety engineer, industrial hygienist, hydrologist, reclamation planning

• **Classes**: Engineering, finance, law, ethics, etc.
Mine Operations

- **Challenge:** Improve technology, reduce costs
- **Responsibility:** Short and long term operation of a mine
- **Career opportunities:** Mine planning, equipment manufacturing, ore control, management
- **Classes:** Engineering, finance, management, equipment, etc.
Mineral Processing

• **Challenge:** Get more ore out of low quality material

• **Responsibility:** Ensuring cost effectiveness of processing facilities

• **Career opportunities:** Process engineering, systems planning, ore control

• **Classes:** Engineering, mineral processing, environmental, etc.
What can you take at UNISON?

- Math, Physics, English, General Education
- Any lower division non-MNE courses
Faculty

• Individual attention
• Variety of notable work experience
• Many active research projects
• Diverse and supportive
Cost & Financial Aid

- Over $465,000 in scholarships per year
- Any student *declared* in the MGE program is eligible for the scholarships available at the UA
- FASFA application
- MGE has ample funding for students who maintain good grades and/or are in financial need
- Almost all students find summer jobs within mining industry
- Summer job averaging $22 / hour before bonuses
- Low cost of in-state tuition
- Discounted out-of-state tuition (WUE)
San Xavier Underground Mine

Click here to watch the video
Clubs and Activities
Clubs and Activities
Opportunities

Agreement with UNISON

In-State tuition, no TOEFL exam for students born in the US

Education State Department in Sonora has a special program (tuition benefits) for Sonoran residents pursuing an undergraduate degree in Arizona.

For graduate studies, COECYT provides scholarships for Mexican citizens pursuing a master or doctoral degree at UA

Arizona SME conference financial support $500
Questions?

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