

**CURRICULUM LEADING TO THE  
BACHELOR OF SCIENCE DEGREE IN MINING ENGINEERING**

**FRESHMAN YEAR**

**FIRST SEMESTER**

CHE 105 General College Chemistry I	3
CS 221 First Course in Comp. Sci. for Engineers	2
ENG 104 Writing: an Accelerated Found. Course	4
MA 113 Calculus I	4
MNG 101 Introduction to Mng. Engr.	1
* University Studies	3
	<u>17</u>

**SECOND SEMESTER**

CHE 107 General College Chemistry II	3
MA 114 Calculus II	4
MNG 264 Mining Methods	3
PHY 231 Gen University Physics	4
PHY 241 Gen. University Physics Laboratory	1
	<u>15</u>

**SOPHOMORE YEAR**

**FIRST SEMESTER**

EM 221 Statics	3
GLY 220 Principles of Physical Geology	4
MA 213 Calculus III	4
MNG 331 Explosives and Blasting	2
PHY 232 General University Physics	4
PHY 242 Gen. University Physics Laboratory	1
	<u>18</u>

**SECOND SEMESTER**

COM 199 Presentational Communication Skills	1
EM 302 Mechanics of Deformable Solids	3
MA 214 Calculus IV	3
ME 220 Engineering Thermodynamics I	3
MNG 291 Mineral Reserve Modeling	2
MNG 303 Deformable Solids Laboratory	1
MNG 332 Mine Plant Machinery	3
	<u>16</u>

**JUNIOR YEAR**

**FIRST SEMESTER**

EE 305 Electrical Circuits and Electronics	3
GLY 230 Fundamentals of Geology I	3
ME 330 Fluid Mechanics	3
MNG 211 Mine Surveying	2
MNG 301 Minerals Processing	3
MNG 302 Minerals Processing Laboratory	1
MNG 371 Professional Dev. of Mining Engineers	3
	<u>18</u>

**SECOND SEMESTER**

ECO 201 Principles of Economics I	3
EM 313 Dynamics	3
MNG 335 Intro. to Mine Systems Analysis	3
MNG 463 Surface Mine Design and Env. Issues	3
*** Minerals Processing Technical Elective	3
* † University Studies/Graduation Writing Req.	3
	<u>18</u>

**SENIOR YEAR**

**FIRST SEMESTER**

MNG 341 Mine Ventilation	3
MNG 431 Mine Sys. Engineering and Valuation	4
MNG 551 Rock Mechanics	4
MNG 591 Mine Design Project I	1
* University Studies	3
	<u>15</u>

**SECOND SEMESTER**

MNG 592 Mine Design Project II	3
** Supportive Elective	3
†† Technical Elective	3
†† Technical Elective	3
* University Studies	3
	<u>15</u>

Total hours = 132