

## BACHELOR OF SCIENCE IN MINING ENGINEERING (2022-2023 Catalog Year)\*\*

\*\* If you need the course plan for another catalog year, please contact your MIN faculty advisor.

<b><u>First Year: Fall</u></b>	<b><u>Cr.</u></b>	<b><u>First Year: Spring</u></b>	<b><u>Cr.</u></b>
MIN F110 – Elements of Mine Safety, Operations and Development	2	GE F261 – General Geology for Engineers	3
CHEM 105X – General Chemistry	4	MATH 252X – Calculus II	4
WRTG 111X – Intro. to Academic Writing	3	CHEM 106X – General Chemistry	4
MATH 251X – Calculus I	4	COJO 131X/141X – Fundamentals of Communication	3
GER A, H, SS, E (1 of 6)	<u>3</u>	GER A, H, SS, E (2 of 6)	<u>3</u>
	<b>16</b>		<b>17</b>
 <b><u>Second Year: Fall</u></b>		 <b><u>Second Year: Spring</u></b>	
MATH 253X – Calculus III	4	GER A, H, SS, E (3 of 6)	3
GEOS F262 – Rocks and Minerals <sup>1</sup> [ <sup>1</sup> or GEOS F213 – Mineralogy, 4 cr.]	3	ES 208 – Mechanics	4
PHYS 211X – General Physics I	4	PHYS 212X – General Physics II	4
MIN F202 – Surveying and CAD for Engineers	2	GEOS F332 – Ore Deposits/Structure <sup>2</sup> [ <sup>2</sup> or GEOS F214 – Petrology & Petrography, 4 cr.]	3
MIN F390 – Geostatistics & Mineral Economics (O)	<u>3</u>	WRTG 211X/213X – Academic Writing	<u>3</u>
	<b>16</b>		<b>17</b>
 <b><u>Third Year: Fall</u></b>		 <b><u>Third Year: Spring</u></b>	
ES 307 – Elements of Electrical Engineering	3	ES 346 – Basic Thermodynamics	3
ES 331 – Mechanics of Materials	3	MATH 302 – Differential Equations	3
ES 341 – Fluid Mechanics	4	MIN F302 – Underground Mine Environmental Engineering	3
MIN F407 – Mine Reclamation and Environmental Management (W)	2	MIN F303 – Ore handling and Industrial explosives	3
MIN F482 – Computer Aided Mine Planning and Design	<u>3</u>	MIN F370 – Rock Mechanics	3
	<b>15</b>	MIN F484 – Surface Mining Methods	<u>1</u>
			<b>16</b>
 <b><u>Fourth Year: Fall</u></b>		 <b><u>Fourth Year: Spring</u></b>	
LS 101X – Library Info & Research	1	GER A, H, SS, E (6 of 6)	3
GER A, H, SS, E (4 of 6)	3	Technical Elective	3
GER A, H, SS, E (5 of 6)	3	MIN F409 – Operations Research	2
MIN F313 – Introduction to Mineral Preparation	3	MIN F444 – Accident, Emergency and Safety Management in Mines	2
MIN F454 – Underground Mining Methods	2	MIN F485 – Mining Exit Exam	0
MIN F489 – Mining Design Project I	<u>1</u>	MIN F490 – Mining Design Project II (W)	2
	<b>13</b>	MIN F491 – Automation and Control	<u>2</u>
			<b>14</b>

### NOTES:

- \* GER A, H, SS, E: General Education Requirements – Arts, Humanities, Social Science, Ethics
- \* Geosciences requirements: (1) GEOS 262 or GEOS 213; (2) GEOS 332 or GEOS 214
- \* Technical electives are selected in consultation with your Mining Engineering faculty advisor.
- \* Students must take the Fundamentals of Engineering Exam in order to graduate.
- \* Mining Engineering B.S. degree requires completion of a minimum of 124 credits.

Modified 11/05/2021