

2007-08 CATALOG

MINING ENGINEERING

B.S. Degree Requirements
132 Credits

GENERAL REQUIREMENTS

COMMUNICATIONS:- (9)

Engl 111X (3)____
Engl 211X or 213X (3)____
Comm 131X or 141X (3)____

PERSPECTIVES ON THE HUMAN CONDITION:- (18-22)

Complete the 6 courses listed **OR** 4 of those listed plus 2 semester length courses in a single AK Native or other non-English language or 3 semester length courses (9 credits) in American Sign Language.

Anth 100X/Soc 100X (3)____
Econ/PS 100X (3)____
Hist 100X (3)____
Art/Mus/Thr 200X or Hum 201X or
Ans 202X (3)____
Engl/FL 200X (3)____
BA 323X or Comm 300X or Just 300X or Nrm 303X or
Phil 322X or PS 300X (3)____
Language option as listed above:
_____() _____() _____()

MATHEMATICS:- (15)

Math 200X (4)____ Math 202X (4)____
Math 201X (4)____ Math 302 (3)____

NATURAL SCIENCE:- (16)

Chem 105X (4)____ Chem 106X (4)____
Phys 211X (4)____ Phys 212X (4)____

LIBRARY & INFO SKILLS:- (1)

LS 101X (1)____

COMPLETE 2 DESIGNATED (W) COURSES AND
1 DESIGNATED (O) COURSE OR 2 COURSES
DESIGNATED (O/2) AT THE
UPPER DIVISION LEVEL:

_____(W) _____(W)
_____(O) OR _____(O/2) _____(O/2)

UPPER DIVISION CREDITS:- (39)

Transfer Credits ____
UAF Credits (24)* ____
TOTAL TO DATE: ____
TO BE COMPLETED: ____
*A minimum of 24 UAF credits

**Designates only grades of "C" or better may be used to fulfill this requirement. (A & B areas)*

*MAJOR REQUIREMENTS

A. Complete the following:- (67)

Min 103 (1)____
Min 104 (1)____
Min 106 (1)____
Min 202 (3)____
Min 206 (1)____
Min 301 (3)____
Min 302 (3)____
Min 313 (3)____
Min 370 (3)____
Min 407 (2)____(W)
Min 408 (3)____(O)
Min 409 (3)____
Min 443 (3)____
Min 454 (3)____
Min 482 (3)____
Min 484 (2)____
Min 485 (0)____ (FE exam)
Min 489 (1)____(W)+
Min 490 (2)____(W)+
E.S.201 (3)____
E.S.208 (4)____
E.S 307 (3)____
E.S 331 (3)____
E.S 341 (4)____
E.S.346 (3)____
G.E 261 (3)____
Geos 262 (3)____
Geos 332 (3)____

+ Must complete both courses to earn writing intensive (W) credit.

B. Complete 6 credits of technical elective from the following:

1. Complete 3 credits from the following:

G.E. 440 (3)____
Min 401 (2)____
Min 447 (3)____
Min 472 (3)____
Min 481 (3)____

2. Complete 3 credits of technical elective approved by the Dept. Head: _____(3)_____

Credits for core/general requirements:	59
Credits required for major:	73
Total credits required for degree	132

BACHELOR OF SCIENCE IN MINING ENGINEERING

First Year: Fall

ENGL 111X-Methods of Written Comm.	3
MATH 200X-Calculus	4
Min 103-Intro Mining Engineering	1
CHEM 105x-General Chemistry	4
Perspectives on the Human Condition	3
MIN 104-Mining Safety & Operations Lab	1
	16

First Year: Spring

COMM 131X or 141X	3
MATH 201X-Calculus	4
GE 261-General Geology for Engineers	3
CHEM 106X-General Chemistry	3
Min 106 - Mining Operations	1
LS 101X –Library Info & Research	1
Perspectives on the Human Condition	3
	18

Second Year: Fall

PHYS 211X-General Physics	4
MATH 202X-Calculus	4
GEOS 262 – Rocks and Minerals*	3
MIN 202 – Mine Surveying	3
Perspectives on the Human Condition	3
	17

Second Year: Spring

PHYS 212X-General Physics	4
MATH 302-Differen. Equations	3
ENGL 211X or 213X-Intermed. Exposition	3
ES 208 – Mechanics	4
ES 201 – Computer Techniques	3
Min 206 - Mining Operations II	1
	18

Third Year: Fall

ES 307-Elements of Electrical Engr.	3
ES 331-Mechanics of Materials	3
ES 341-Fluid Mechanics	4
MIN 313-Intro. to Mineral Preparation	3
Perspectives on the Human Condition	3
	16

Third Year: Spring

ES 346-Basic Thermodynamics	3
GEOS 332-Ore Deposits and Structure	3
MIN 301 – Mine and Plant Design	3
MIN 302-Underground Mine Environ. Engineer	3
MIN 370 – Rock Mechanics	3
	15

Fourth Year: Fall

MIN 407-Mine Reclamation & Environ. Mgmt.	2
MIN 443-Prin. & Appl. Industrial Explosives	3
MIN 454-Mining Methods I	2
MIN 489-Mine Design Project I	1
Technical Elective*	3
Perspectives on the Human Condition	3
	15

Fourth Year: Spring

MIN 408-Mineral Valuation & Economics	3
MIN 409-Oper.Research & Computer Appl. ...	3
MIN 484-Mining Methods III	2
MIN 490-Mine Design Project II	2
Technical Elective*	3
	13

*** Note: Students must choose one technical elective from GE 440, Min 401, 447, 472, 481, or 482. The other elective course should be planned in consultation with a mining engineering faculty advisor, and will have to be approved by the department head.**