

Bachelor of Science in Mining Engineering

Department of Mining and Geological Engineering

Mapping of Program Outcomes to ABET 3A-K and Program Criteria

The following matrix displays the correlation between our learning outcomes and the requirements of ABET Criterion 3 (a through k).

For reference, Criterion 3 a-k are:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs
- (d) an ability to function on multi-disciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- (i) a recognition of the need for, and an ability to engage in, life-long learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Table 3-1. Mapping mining engineering outcomes to Criterion 3.

MNE Learning Outcomes	ABET Criteria										
	3a	3b	3c	3d	3e	3f	3g	3h	3i	3j	3k
Outcome A	X										
Outcome B		X	X	X						X	X
Outcome C			X		X						
Outcome D							X				
Outcome E								X		X	
Outcome F						X			X		
Outcome G											X