

MINING TECHNOLOGY - AAS

Offered at: Big Sandy Community and Technical College, Madisonville Community College

Program Plan Number: 1509017019

Course	Title	Credits
General Education		
ENG 101	Writing I	3
	Quantitative Reasoning course ¹	3
	Social/Behavioral Science course	3
	Select one of the following two options:	4
GLY 101 & GLY 111	Physical Geology and Physical Geology Laboratory	
	Natural Sciences	
	Heritage/Humanities	3
	Subtotal	16
Technical Core		
	Digital Literacy	3
BAS 160	Introduction to Business	3
EFM 100 or BAS 120	Personal Financial Management Personal Finance	3
MNG 102	Introduction to Mine Engineering and Mining Technology	3
MNG 150	Mining Laws	3
MNG 160	Elements of Underground Mining	3
MNG 170	Elements of Surface Mining	2
MNG 180	Environmental Issues in Mining	3
MNG 274	Mine Safety	3
	Subtotal	26
	General Education and Technical Core Subtotal	42
<i>Students must complete one of the tracks listed below to complete the AAS requirements.</i>		

¹ MAT 150 College Algebra (3 credit hours) is required for Engineering Operations Track and Supervisors Track.

Electricians Track

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Program Plan Number: 150901703

Course	Title	Credits
General Education & Technical Core Subtotal		42
Select one of the following two options:		5
MNG 123 & MNG 125	Mining Electricity I and Mining Electricity I Lab	
IMT 110 & IMT 111	Industrial Maintenance Electrical Principles and Industrial Maintenance Electrical Principles Lab	
ELT 244	Electrical Machinery and Controls (or Equivalent course)	4
ELT 250	Programmable Logic Controllers	4

IMT 150	Maintaining Industrial Equipment I	3
IMT 151	Maintaining Industrial Equipment I Lab	2
Technical Electives: Any AIT, EET, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG or any other course as approved by the program coordinator.		2
Total Credits		62

Engineering Operations Track

Offered at: Big Sandy Community and Technical College, Madisonville Community College

Program Plan Number: 150901701

Course	Title	Credits
General Education & Technical Core Subtotal		42
MAT 154 or MAT 155	Trigonometry Trigonometry	2-3
	Blueprint Reading course	2-3
MNG 286	Roof Control and Ventilation	3
Technical Electives: Any AIT, EET, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG or any other course as approved by the program coordinator.		12
Total Credits		61-63

Mechanics Track

Offered at: Big Sandy Community and Technical College, Madisonville Community College

Program Plan Number: 150901705

Course	Title	Credits
General Education & Technical Core Subtotal		42
	Blueprint Reading course	2-3
Select one of the following two options:		3-5
ELT 265	Applied Fluid Power	
FPX 100 & FPX 101	Fluid Power and Fluid Power Lab	
ELT 122	Mechanical Power Transmission Systems	3
IMT 100	Welding for Maintenance	3
IMT 101	Welding for Maintenance Lab	2
IMT 150	Maintaining Industrial Equipment I	3
IMT 151	Maintaining Industrial Equipment I Lab	2
Technical Electives: Any AIT, EET, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG or any other course as approved by the program coordinator.		2
Total Credits		62-65

Operators Track

Offered at: Big Sandy Community and Technical College, Madisonville Community College

Program Plan Number: 150901702

Course	Title	Credits
General Education & Technical Core Subtotal		42
IMT 150	Maintaining Industrial Equipment I	3

IMT 151	Maintaining Industrial Equipment I Lab	2
MNG 161	Elements of Underground Mining Lab	1
MNG 171	Elements of Surface Mining Lab	1
Technical Electives: Any AIT, EET, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG or any other course as approved by the program coordinator.		11-13
Total Credits		60-62

Supervisors Track

Offered at: Big Sandy Community and Technical College, Madisonville Community College

Program Plan Number: 150901704

Course	Title	Credits
General Education & Technical Core Subtotal		42
ACT 101	Fundamentals of Accounting I	3
BAS 283	Principles of Management	3
BAS 288	Personal and Organizational Leadership	3
MNG 286	Roof Control and Ventilation	3
Technical Electives: Any AIT, EET, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG or any other course as approved by the program coordinator.		8
Total Credits		62