

MINE SAFETY (MSF)

MSF 510 Survey of Mining	3 Credit hours		MSF 591 Workshop	1-4 Credit hours
An overview of mining to provide the participant with a general understanding of mining history, development systems terminology, procedures, methods and safety and health activities.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 592 Workshop	1-4 Credit hours
MSF 511 Mine Safety Prog Analysis	3 Credit hours		Grade Mode: Normal Grading Mode	
This course prepares the participant for the effective analysis of safety programs and provides some specific applications in the mining environment.			MSF 593 Workshop	1-4 Credit hours
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	
MSF 512 Mine Safety Hlth Legisla	3 Credit hours		MSF 594 Workshop	1-4 Credit hours
A survey of the legislation that has affected safety and health in mining with special emphasis of the Federal Mine Safety and Health Act of 1977.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 621 System Safety Engin Mining	3 Credit hours
MSF 513 Mine Safety Hlth Manage	3 Credit hours		A study of the analytical tools used in the recognition, evaluation and control of exposure to hazards in the Mining Industry.	
This course covers the principles, functions and philosophies of mine management.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 622 Accident Prevent Mining	3 Credit hours
MSF 514 Hazard Control in Mining	3 Credit hours		A survey course which discusses why and how mining accidents occur, factors in successful safety programs and the recognition, evaluation, and control of accident causes.	
A study of how to recognize accident potential through-out the mining industry.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 624 Mine Haulage & Transport	3 Credit hours
MSF 526 Ind Toxic Airborne Contam	3 Credit hours		A study of the operation of hoisting haulage equipment used in the mining industry.	
Principles of Toxicology: biochemistry, biological monitoring, biological transformation and chemical hazards. Properties, behavior and measurement of airborne particles. Special topics: sampling and evaluating airborne asbestos dust.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 625 Philos Mine Safety Health	3 Credit hours
MSF 527 Phys Biol Health Hazards	3 Credit hours		An analysis of the philosophies of mine safety and health; application of these philosophies to actual mining situations.	
Physical hazards: heat, noise and radiation. Biological hazards: atmospheric transport of microorganisms that cause disease.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 626 Safety Hlth Resrch Mining	3 Credit hours
MSF 580 Special Topics	1-4 Credit hours		An analysis and study of selected works of national and international authors concerning mine safety and health.	
A study of special topics not offered in regularly scheduled courses.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 627 Health Hazards in Mining	3 Credit hours
MSF 581 Special Topics	1-4 Credit hours		A broad spectrum approach to the mine health field which includes: the principles for recognition, evaluation and control of health hazards in mining.	
A study of special topics not offered in regularly scheduled courses.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 628 Man Machine Environ Mining	3 Credit hours
MSF 582 Special Topics	1-4 Credit hours		A study of the interactions of man, machines and the environment. The role of these interactions in causing or in preventing accidents.	
A study of special topics not offered in regularly scheduled courses.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 629 Prob Analysis Mine Safety	3 Credit hours
MSF 583 Special Topics	1-4 Credit hours		A study of the rational process of problem solving decision making consultation with emphasis on realistic case studies.	
A study of special topics not offered in regularly scheduled courses.			Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 631 Mine Accident Investiga	3 Credit hours
MSF 585 Independent Study	1-4 Credit hours		A study of the principles, techniques and procedures of investigations of mine accidents including attendance in court and report writing.	
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	
MSF 586 Independent Study	1-4 Credit hours		MSF 635 Sampl Ind Vent Resp Equip	3 Credit hours
Grade Mode: Normal Grading Mode			Gas, vapor and particulate sampling-industrial ventilation for control of health hazards. Use of respiratory protective equipment to control health hazards.	
MSF 587 Independent Study	1-4 Credit hours		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode			MSF 636 Tlv'S Sampling Analy Tech	3 Credit hours
MSF 588 Independent Study	1-4 Credit hours		Threshold limit values and material safety data sheets. Hands-on experience in collecting industrial hygiene samples and subsequent laboratory analysis of the samples.	
Grade Mode: Normal Grading Mode			Grade Mode: Normal Grading Mode	

MSF 637 Stress Impact Mining Safe 3 Credit hours

A study on stress and its impact of safety and health in mining. Activities will be scheduled to enable the student to apply, in a work setting, some of the basic stress concepts.

Grade Mode: Normal Grading Mode

MSF 679 Problem Report 3 Credit hours

Pre-req: MSF 510.

Grade Mode: Normal Grading Mode

MSF 681 Thesis 1-6 Credit hours

Individual research on a specific problem of concern to the student and of significance to mine safety.

Grade Mode: Normal Grading Mode

MSF 690 Seminar 1-4 Credit hours

Pre-req: MSF 510.

Grade Mode: Normal Grading Mode

MSF 691 Seminar 1-4 Credit hours

Pre-req: MSF 510.

Grade Mode: Normal Grading Mode

MSF 692 Seminar 1-4 Credit hours

Pre-req: MSF 510.

Grade Mode: Normal Grading Mode