

## Course Information

### **Min 445: Accidents, Emergency and safety Managements in Mines**

**3+ 0 Credit hours, Pre-Req: Min 302, concurrently with Min 454, or Permission of the Instructor.**

**Alternate Fall, M, W & F, 8:00 AM – 9:00 AM**

**2013 Catalog Description:** Accident statistics, Accident investigation & prevention, Major provisions of current laws, Rule-making procedures, Mine fires and explosions, causes and prevention, Loss control principles and methods, Emergency evacuation, Emergency response & Emergency preparedness, Safety management systems and behavioral science applications.

**Course Instructors:** Sukumar Bandopadhyay, PhD., P.E., Professor of Mining Engineering, 311 Duckering Building, College of Engineering & Mines, Ph: 904-474-6876, Email: [sbandopadhyay@alaska.edu](mailto:sbandopadhyay@alaska.edu)

Office Hours: TBA  
Location: TBA

**Text book/Course Materials: Instructor's notes will be made available to the students.**

**Suggested Reading Materials:** Various mining accident reports in the public domain, MSHA publications on mining safety and accidents, CFR 30, part 75, subpart- D

**Course Objectives:** **In today's mining industry, all levels of management understand the moral obligation, as well as economic justification, for running operations in a manner that safeguards the health and safety of their workers. These factors,**





- (4) All home works, and project works need to be submitted electronically (MS word file). **No hand written submission of the homework or project work will be accepted.**
- (5) **Late submission of any homework or project work will be checked but will not count towards the final grade for the class.**

### **DISABILITIES SERVICES**

**The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. The instructor will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities. Contact: Mary Matthews, Disability Services, fnmkm@uaf.edu, x5655.**

**Course Evaluation:** The students will be evaluated based on absolute scores. Two in-class examinations (Mid-term & final) will be 60% of the total grade, class-home works will consist of 15% of the grade, class project will consist of 20% of the grade, and class-participation & attendance will count for 5% of the grade.

The class project will involve “root cause analysis” of an accident. A written project report will be required. It will be graded based on the (a) approach, (b) identification of “root causes” for the accident, (c) completeness, and (d) presentation of the report.

A student who receives 90% or above will get an “A” grade, 85-90% will get a “B” grade, 80-85% will count for a B-, etc.