



# MINE 305: Coal Mining

Spring Semester, 2010



<b>Instructor:</b>	Dr. Christopher J. Bise	<b>Phone:</b>	(304) 293-3831
<b>Email:</b>	<a href="mailto:Chris.Bise@mail.wvu.edu">Chris.Bise@mail.wvu.edu</a>	<b>Office:</b>	365A MRB
<b>Class Hours:</b>	TTh 11:00a – 12:15p	<b>Office Hours:</b>	MW 1:00p – 2:00p or by appointment
<b>Class Location:</b>	355 Engineering Sciences Bldg.		

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## INTRODUCTION

This course provides students who are not majoring in mining engineering with a solid foundation in, and understanding of, the science and art of coal mining, an industry which is synonymous with West Virginia. Further, students in this course will be taken on field trips so that they can, first-hand, observe and understand how certain techniques and equipment are used to recover the energy for over half the electricity consumed by the United States.

## PREREQUISITE

Junior Standing or Consent

## REQUIRED TEXT

MINE 305 Course Packet

## TOPICS COVERED

- Depositional Characteristics of Coal Seams
- Coal Industry Statistics
- Underground Mining
- Surface Mining

## STUDENT LEARNING OUTCOMES AND COURSE COMPETENCIES

Students successfully completing this course will be able to:

- understand how coal was deposited and how geology affects mining methods,
- appreciate how coal mining has evolved over the generations,
- understand both underground and surface mining methods,
- apply knowledge of Unit Operations and Auxiliary Operations, such as Strata Control and Ventilation,
- evaluate a mining system, component, or process to meet desired needs,
- prepare a technical report,
- make a formal oral presentation, and
- use Microsoft Word and Excel as tools to analyze, report on, and present data.

## ASSESSMENT/GRADING

Grades are based upon student performance on assignments, quizzes, and projects. Each assessment tool is weighed as follows:

Three Examinations	80%
Group Project	20%

Letter grades are assigned according to the following scale:

A	90% – 100%
B	80% – 89%
C	70% – 79%
D	60% – 69%
F	Below 60%



Class and field-trip participation will be taken into account in borderline cases.

## ATTENDANCE POLICY

Attendance is mandatory unless excused by the instructor. The basis for an excused absence will follow University policy. Students who are absent from class for any reason are responsible for all missed work. Students who miss an exam will not be permitted to make it up, except in the case of a documented family or other legitimate emergency. Any exception will be allowed at the sole discretion of the instructor.

## **ACADEMIC INTEGRITY**

In taking this course, it is assumed that you aspire to a professional career in which you will lead people and manage resources. As a result, your personal integrity is an integral component. Therefore, I will require that you adhere to the academic guidelines as specified in the following Web Site:

<http://www.arc.wvu.edu/admissions/integrity.html>

If you have any questions, please do not hesitate to contact me.

## **CLASSROOM CONDUCT**

Since you are all professionals in training, I expect you to conduct yourself in a professional manner in this class. For instance, while the class is in progress, I expect everyone to remove their hats, put away the newspaper, refrain from eating and drinking, etc. Please do not force me to have to remind you that you should behave in a professional manner.

## **CLASS CANCELLATIONS FOR WEATHER AND OTHER EMERGENCIES**

It is not unusual to experience some nasty winter weather during most of Spring Semester. Besides bad weather, we are becoming more cognizant of other emergencies (human or health originated) that may lead to a cancellation of classes. If the University decides to close, cancel, or delay classes, an announcement is posted immediately on various websites, including [www.wvu.edu](http://www.wvu.edu) and MIX.

## **STATEMENT ON SOCIAL JUSTICE**

West Virginia University is committed to social justice. I concur with that commitment. I expect to foster a nurturing learning environment that is based upon open communication, mutual respect, and non-discrimination. Our University does not discriminate on the basis of race, sex, age, disability, veteran status, religion, sexual orientation, color or national origin. Any suggestions as to how to further such a positive and open environment in this class will be appreciated and given serious consideration. If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, you must make appropriate arrangements through Disability Services (293-6700). They will identify the nature of the accommodation your disability requires.