

Management of Safety and Health Issues In
Production Agriculture and Related Businesses
ASM 426

Course Description*:

ASM 426, *Management of Safety and Health Issues in Production Agriculture and Related Businesses*, is a 3 credit hour course that explores the management aspects of farm and agriculturally related business safety and health. Topics to be covered include: orientation to farm and related business safety and health issues, legal and ethical responsibilities, how to approach and organize safety and health management plans, and safety and health education and training.

Students use a case study approach to devise safety and health management plans for an existing farm or agricultural related business enterprises. Activities focus on analyses of worksite hazards, developing a hazard control plan, and employee training. Evaluation includes homework and class participation, quizzes, a final exam, and a final paper and class presentation.

ASM 426 teaches students how to develop a systems approach to developing management strategies and plans to counteract work hazards, and to develop occupational safety and health management plans for production agriculture and related businesses that serve production agriculture. ASM 426 is an upper-level elective for the Industrial Safety and Health program in the Department of Energy & Geo-Environmental Engineering, College of Earth & Mineral Sciences.

Prerequisite: 5th semester or higher, ASM 326
Offered every other Spring semester

Why take ASM 426:

Agriculture is the second most hazardous industry in America. The agricultural industry, including farming operations, agricultural support services and related businesses, has become increasingly concerned about injury prevention in recent years. Agricultural operations and related businesses are becoming larger, more diverse, and are hiring more non-family and non-farm reared labor than ever before. Students will be become knowledgeable about the types of hazards they may encounter in any future production agriculture related employment. Agricultural and small businesses that do not have an organized safety and health program are exposed to significant economic and legal liability. This course increases employment opportunities.

Instructional Objectives:

Upon successful completion of this course, students will be able to:

- 1) compare and contrast farm and rural agribusiness injury data with other hazardous occupations and industries;
- 2) identify unique factors that impact farm and rural agribusiness worker safety and health;
- 3) identify and understand legislation governing farm and rural agribusiness worker safety and health;
- 4) locate and critically review safety and health resources related to farm and rural agribusiness safety and health;
- 4) describe hazards found in the farm and rural agribusiness workplace;
- 5) identify preferred strategies and techniques for abating hazards;
- 6) plan and develop effective safety training for workers;
- 7) write a comprehensive farm or rural agribusiness safety management plan;

Course Outline (brief):

Week 1	Agricultural and rural injury and disease
Week 2	Developing safety and health management programs
Week 3	Work Safety & Health and Legal Issues
Week 4	Resources for Work Safety & Health
Week 5	Management and Employee Commitment
Week 6	Work Site Analysis Concepts
Week 7	Work Site Analysis Implementation
Week 8	Hazard Prevention and Control Concepts
Week 9	Hazard Prevention and Control Implementation
Weeks 10 & 11	Manager and Employee Education and Training Concepts
Week 12	Case study reports
Week 13	Record Keeping and Documentation
Week 14	Managing emergency incidents
Week 15	Case study presentations
	Final exam

Evaluation Methods:

Homework and class participation	20%
Quizzes	25%
Final Exam	25%
Final paper and class presentation	30%

*Course content and syllabus is subject to change.