Safety Studies (SAFETY)

SAFETY-581

Motor Fleet Safety 3 cr

An analysis of fleet safety problems and programs. Detailed study of the truck transportation industry, motor carrier responsibilities, federal regulations and safety supervision programs.

Prereq: SAFETY-380

SAFETY-582

Safety In The Construction Industry 3 cr

This course examines safety-related problems and practices found in the construction industry. Administrative and organizational policies necessary to develop a construction safety program are examined. Students will be introduced to specific detailed problems and countermeasures for correction through lectures and field trips. The course provides an in-depth analysis of applicable OSHA standards.

Prereq: SAFETY-380 or consent of instructor.

SAFETY-583

Introduction To Security 3 cr

A study of the physical, personnel, and informational aspects of the security field. Concepts of these areas will be integrated with safety management concepts and will be discussed in relationship to industrial and business environments.

Prereq: An industrial safety course or consent of instructor.

SAFETY-584

Construction Accident Prevention 3 cr

A combination of principles and practices designed to provide a basis for understanding the nature of accident prevention and loss reduction in construction operations. The topics to be examined include federal safety and health regulations, techniques of haszard control, strategies for minimizing injuries and losses, and sources of assistance in resolving safety and helth problems.

Prereq: SAFETY-382/582 or consent of instructor.

SAFETY-620
Principles Of Environmental Safety 3 cr

This course addresses the U.S. Environmental Protection Agency regulations and the related responsibilities of the safety professional to insure compliance. Areas to be covered are: Safe Drinking Water Act, Storm Water Discharges, Hazardous Waste Disposal, Environmental Audits, Clean Air Act, etc.

SAFETY-650
Behavioral Aspects Of Accident Prevention 3 cr

Selected theories of accident causation and countermeasures are studied. Examination of physiological, medical, psychological, and sociological factors which influence behavior, and methods for modifying unsafe behavior.

Prereq: Consent of instructor.

SAFETY-661
Problems And Materials Of Driver Education 3 cr

Emphasis is placed on driver and traffic safety education professional issues and classroom curricular content, methods and resources. Organization and administration of the high school program will also be examined.

Prereq: SAFETY-260 or consent of instructor.

SAFETY-679
Principles and Methods of Industrial Hygiene 5 cr

An introduction to the science and art of anticipating, recognizing, evaluating, and controlling the chemical, physical, and biological agents that affect the health and safety of workers. The laboratory provides working knowledge and hands-on experience with equipment for recognizing, analyzing, and evaluating occupational health hazards in industry. One 2.5 hour lecture and one 2.5 hour lab per week.

Prereq: CHEM-102 or consent of instructor.

SAFETY-682

Construction Safety Management 3 cr

An examination of the practices of managing occupational safety and health programs in the construction field. The course is designed to provide the student with an understanding of how the regulatory and financial responsibilities of accident prevention, health preservation and loss reduction in construction operations are met.

Prereq: SAFETY-384/584

SAFETY-683

Industrial Safety Management 3 cr

Emphasis will be on the organizational and administrational problems that relate to an occupational accident prevention program. The course is especially designed for students majoring in the business related areas as well as teachers and future safety professionals who desire to emphasize an understanding of these management problems as well as some applicable solutions.

Prereq: An industrial safety course or consent of instructor.

SAFETY-685

Fire Protection/Prevention 3 cr

Control of fires through study of building construction to prevent fire spread, occupancy-hazard relationships, exposure to and from adjacent occupancies, lifesaving aspects, and the development of professional knowledge of flammable gases, liquids, combustible solids, dusts, chemicals, and explosives. Interpretation of appropriate codes will be covered.

Prereq: CHEM 102 or one semester of general college chemistry and or consent of instructor.

SAFETY-686

Safe Handling Of Materials 3 cr

Students will study the mechanical and manual safe handling of materials as major contributors to accident causation in industry. Using a systems safety approach, students will be exposed to personnel training and placement, equipment operation and maintenance, flow of materials, and the handling of hazardous materials.

Prereq: SAFETY-380 or consent of instructor.

SAFETY-687
Product Safety 3 cr

An analysis of the trends of the product liability problem and the agencies regulating products. Special emphasis will be given to legal theories related to product liability and landmark litigation providing the basis for case law. A substantial portion of the course will be devoted to examining the elements of product safety programming.

Prereq: An industrial safety course or consent of instructor.

SAFETY-688
Ergonomics 3 cr

This course is intended to provide the student with basic introductory information concerning human information processing capabilities and limitations. Ergonomic strategies for preventing manual material handling, repetitive motion injury and ergonomic design and evaluation of man-machine systems will be included in the course.

Prereq: Consent of instructor.

SAFETY-689
Chemical Safety 3 cr

This course addresses OSHA, NFPA & ANSI standards as they relate to the use and storage of chemicals in the workplace. Standards to be covered include Process Safety Management of Highly Hazardous Chemicals, Hazardous Chemical Communication, Personal Protective Equipment Regulations, Laboratory Safety Standard, DOT Shipping Requirements, etc.

Prereq: CHEM-102 and CHEM-104 or one year of general college chemistry or consent of instructor.

SAFETY-690
Workshop In Safety 1-6 cr

Prereq: Consent of instructor.

SAFETY-691

Travel Studies 1-3 cr

SAFETY-696

Special Studies In Safety 1-3 cr

Prereq: Consent of instructor.

SAFETY-711

Principles Of Institutional Safety 3 cr

The course will review safety and environmental conditions and requirements in hospitals, nursing homes and correctional institutions. The appropriate state, federal and Joint Commission on Accreditation of Hospital regulations and standards will be covered. Problems involving infection control, laundry sanitation, fire safety, employee and patient safety, life safety codes, emergency disaster plans, hazardous materials management, public health control of insects and rodents, and environmental safety and sanitation of institutions will be discussed. The role of the Institutional Safety Committee and Safety Officer will be developed.

Prereq: Consent of instructor.

SAFETY-752

Safety Communications 3 cr

Investigation of the communication processes as related to the field of safety. Design and manipulation of the communication processes to influence safe behavior. Planning public information and community support programs.

SAFETY-753

Legal Aspects In Occupational Safety 3 cr

An examination of federal and state laws with legal interpretations having application to safety professionals and industries will be emphasized. Federal acts, such as OSHA, CPSA and others will be dealt with in respect to their involvement with the industry. Liability to individuals and to the public will be stressed.

SAFETY-757

Principles Of Occupational Epidemiology 3 cr

This course will introduce the principles of occupational epidemiology and discuss the application of these principles in the recognition, control and prevention of disease and injury. The course will review the etiology of various acute, chronic, infectious, occupational and environmental diseases.

Prereq: ECON-245 or EDFOUND-482/682 or MATH-231.

SAFETY-783

Corporate Safety Management 3 cr

This course is designed for Occupational Safety majors, prior to fieldwork experience. Attention will be given to the corporate structure of industry and loss control functions within the corporate structure. Special emphasis will be placed on developing a corporate loss control program.

SAFETY-787

System Safety Analysis 3 cr

Introduction to the system technique as applied to the recognition of potential accident situations in occupational environments. Concentration will be on the qualitative aspects of safety, utilizing numerous examples and problems.

Prereq: Math 230 (or equivalent statistics) or consent of instructor.

SAFETY-788

Advanced Human Factors Engineering 3 cr

An in-depth analysis of the human system, and how that system interacts with various machine systems. Current research in the area of human factors will be emphasized, with practical applications for countermeasures being established.

Prereq: MATH-230 (or equivalent statistics), SAFETY-488/688 and consent of instructor.

SAFETY-789

Readings And Research In Safety 3 cr

Students will examine research and professional issues and apply the information to a problem of their choice. This course will be required of students who choose the proposed 36 credit option with the M.S. in Safety - Traffic. In lieu of completing a comprehensive examination or thesis, students will complete this course and 33

additional graduate credits. This course will provide a "capstone" graduate program experience.

SAFETY-790

Workshop 1-6 cr

SAFETY-793

Practicum 1-6 cr

Prereq: Graduate status, application and interview, completion of 9 credits at UW-Whitewater, and designated curriculum check sheet requirements.

SAFETY-794

Seminar 1-3 cr

SAFETY-796

Special Studies 1-3 cr

SAFETY-798

Individual Studies 1-3 cr

SAFETY-799

Thesis Research 1-6 cr

Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.