SAN JUAN COLLEGE
Success Matters

SAFE-2590 INDUSTRIAL HYGIENE 2 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course provides an introduction to the practice of industrial hygiene. History, regulations, basic principles, standards, and measurements are covered during this course. Chemical, physical, and biological hazards are identified, described and explained.

Prerequisites:

Semester Offered: All

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in…

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to…

1. Examine and discuss the practice of industrial hygiene (IH), and the management of IH issues, and standards
2. Evaluate the key elements of an IH program and explain its relationship to a company's overall safety program

3. Assemble five areas of applied science that are used in industrial hygiene

4. Arrange the five responsibilities or tasks that an industrial hygienist might perform

5. Discuss the history and regulatory background of industrial hygiene and related regulations or standards

6. Define and contrast risk, risk assessment, risk management, and risk communication

7. Explain chemical terminology as it applies to workplace safety

8. Appraise occupational health hazards that may exist in the workplace

9. Summarize the basis for Permissible Exposure limits, and Threshold Limit Values

10. Explain the control of biological hazards in an occupational setting

11. Plan for and estimate annual expenses, and establish budget priorities

12. Discuss the three categories used to classify the results of a workplace exposure assessment

13. Recognize occupational exposure limits

14. Explain the criteria for medical surveillance and carcinogens programs