Western Kentucky
University Department of
Public Health
Industrial Hygiene EOHS 570

Instructor: Ritchie Taylor, PhD
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Office Hours: See Office Hours on Door
Email for an appointment or conference call

Course Material: Course materials will be provided and material will be posted on WKU’s Blackboard

**Required Textbook**


**Additional Textbook**

A Strategy for Assessing and Managing Occupational Exposures

*Jahn, Steven D., Bullock, William, Ignacio, Joselito S.*

2015

Available through WKU Libraries at

**Course Description**

This course presents contemporary occupational exposure and hazard issues in the workplace. Issues of industrial hygiene and general methods of control are addressed.

**Course Objectives**

Upon successful completion of the course students will be able to:

1. Understand the fundamental concepts and methods related to industrial hygiene
2. Recognize the potential hazards and exposure scenarios related to specific chemical, physical and biological agents
3. Develop evaluation and control strategies to reduce worker exposures to chemical, physical and biological agents
4. Identify appropriate sampling strategies to assess workers exposures to environmental
and occupational hazards

**Student Responsibilities and Assessments**

Every student is expected to participate and contribute in all exercises, discussions, and assignments. There will be 10 quizzes that account for 200 points, and exercises/assignments/discussions that account for 300 points. The mid-term exam accounts for 100 points, and the final exam accounts for 100 points. The final exam covers material from the entire course, including the quizzes, discussions and assignments. Additional assignments may be added as needed to support the content of the course.

**Course Content**

Section 1: Introduction – Identifying hazards; exposures and exposure routes; measuring, surveys, analyses and reports.

Section 2: Inhalation Exposure – Dust and fibrous aerosols; gases and vapors; bioaerosols

Section 3: Dermal & Ingestion Exposure

Section 4: Physical Agents – Noise, vibration, heat and cold, lighting, ionizing radiation and non-ionizing radiation

Section 5: Assessing the Effectiveness of Control – Ventilation and personal protective equipment

Section 6: Rise Assessment & Risk Communication

**Title IX Misconduct/Assault Statement**

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU’s Title IX Sexual Misconduct/Assault Policy (#0.2070) at [https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf](https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf) and Discrimination and Harassment Policy (#0.2040) at [https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf](https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf).

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and **MUST** report what you share to WKU’s Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you
confidentiality, you may contact WKU’s Counseling and Testing Center at 270-745-3159.

**ADA Accommodation Statement**

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.
Academic Offenses (As in WKU’s Student Handbook)

The maintenance of academic integrity is of fundamental importance to the University. Thus it should be clearly understood that acts of plagiarism or any other form of cheating will not be tolerated and that anyone committing such acts risks punishment of a serious nature.

Academic Dishonesty
Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or a failing grade in a course without possibility of withdrawal. The faculty member may also present the case to the Office of the Vice President for Student Affairs for disciplinary sanctions. A student who believes a faculty member has dealt unfairly with him/her in a course involving academic dishonesty may seek relief through the Student Complaint Procedure.

Plagiarism
To represent written work taken from another source as one's own is plagiarism. Plagiarism is a serious offense. The academic work of a student must be his/her own. One must give any author credit for source material borrowed from him/her. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage without reference to the source after having changed a few words is also plagiarism.

Cheating
No student shall receive or give assistance not authorized by the instructor in taking an examination or in the preparation of an essay, laboratory report, problem assignment or other project which is submitted for purposes of grade determination.

Other Types of Academic Dishonesty
Other types of academic offenses, such as the theft or sale of tests, should be reported to the Office of the Vice President for Student Affairs for disciplinary sanction.