EOH 701 - Measurement techniques in Infection Prevention

**Course Instructor:** David Woodard, MS  
Lecturer, Dept. of Environmental and Occupational Health

**Classroom:** This class is a completely “on-line” class and there is no classroom assigned.

**Learning Outcomes**

By the end of this course students should be able to successfully:

•  Describe the essential epidemiology processes for an infection prevention program
•  Discuss the policies and practices regarding immunizations and vaccine preventable diseases
•  Develop infection prevention statistical analysis from data sets
•  Prepare and evaluate epidemiological data from infection prevention programs.
•  Organize data and information, prepare technical reports, and give oral presentations on infection prevention issues and surveillance data.
•  Critically read scientific literature in the field of infection prevention.

Describe the metrics of an antimicrobial stewardship program

**Text and Reference material**

No textbooks are required for this course. There will be links to useful reprints and related websites where the student will be required to review pertinent materials.

Text: Instructor provided material and selected journal article readings will be assigned.

Course Content: In this course students will study the process and practices essential to developing and maintaining functioning infection prevention program for healthcare facilities. Particular attention will be paid to the epidemiology and statistics associated with an infection prevention program.

Scientific Paper: A selection of topics for a short paper will be presented. Each student shall choose one topic of their choice from the list provided and prepare a scientific paper on the topic. The paper shall be written using the APA format. The grades for paper will be: 10% Syntax and Grammar, 10% Format, 80% content. Further information on the APA format is available through the UNLV Writing Center [http://writingcenter.unlv.edu/](http://writingcenter.unlv.edu/).

Exams: There will be a total of four examination/projects each worth 100 points, The examination component will not be comprehensive, focusing only on material presented since the prior examination. Extra credit maybe offered in this course.

Late papers and make-up exams: Make-up intra-term exams must be scheduled with the instructor and completed within 1 week (i.e., before the next class period). Make-up final exams must be scheduled with the instructor and completed by the end of final exam week.

**Grade Scale:**

- 93-100%  A
- 90-92%  A-
- 87-89%  B+
- 80-86%  B
- 70-79%  C
NOTE: Any final grade below a B (80%) will not qualify for graduate credit.

Grading:

Four examinations will be administered. Each examination will be worth 100 points.
Summary paper - 100 points
Total cumulative points possible – 500
Minimum acceptable score for graduate credit is 80% or 400 total points

Date       Topic                                      Competencies
Week 1     Intro to Healthcare Epidemiology           MPH 001 EAB 002, EAB 003
Week 2     Basics of Hospital Surveillance           EAB 002, EAB 004, HCA 007 EOH 006
Week 3     SSI and Prevention                        EAB 007, EAB 003, EOH 007, EOH 002
Week 4     Indwelling devices Infections & Prevention EAB 007, EAB 003, EOH 007, EOH 002
             EXAMINATION 1 (Modules 1-3)                  
Week 5     Ventilator Associated Events               EAB 007, EAB 003, EOH 007, EOH 002
Week 6     Antimicrobial Stewardship                  EOH 004, EOH 006, HCA 007, HCA 005, MPH 009
Week 7     Immunizations and Occupational Medicine    EOH 002
             EXAMINATION 2 (Modules 4-6)                  
Week 8     Infections in Specialty care units         MPH 011, EOH 002, EOH 006, EOH 007
Week 9     Outbreak investigations in hospital        EAB 003, EAB 004, EAB 005, EOH 006,
Week 10    Using the NHSN to manage data              HCA 005  HCA 003, HCA 007
             EXAMINATION 3 (Modules 7-10)                 
Week 11    Stratified Infection Risks                 EAB 010, EOH 006
Week 12    Statistics for the C-Suite                 MPH 011, EOH 006, EOH 007
Week 13    Outside agencies                          HCA 001  HCA 004 HCA 007
             PAPER DUE                                    
Week 14    Pay for performance                        HCA 001  HCA 004 HCA 007
Week 15    CMS & Pay for performance                  EAB 007, EAB 009, EAB 010
             EXAMINATION 4 (Modules 11-15)                 

This course is taught via WebCampus in an online education format. The course is listed in WebCampus as EOH 750. It is the responsibility of the students to log into WebCampus on a regular basis to obtain course information; view emails from the instructor, complete class assignments and engage in online discussions. All communication for this course should occur in WebCampus. You maybe assign papers, on-line materials, or book chapters to read to supplement the instruction. This material can be included on the examinations. Reading assignments will be posted in WebCampus. The lecture topics and reading assignments schedule is subject to change. Any changes to this schedule will be announced online and a revised schedule will be posted in WebCampus.

Academic Misconduct—Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to
always take the ethical path. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: https://www.unlv.edu/studentconduct/student-conduct.

Copyright—The University requires all members of the University Community to familiarize themselves with and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you, nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: http://www.unlv.edu/copyright.

Disability Resource Center (DRC)—The UNLV Disability Resource Center (SSC-A 143, http://drc.unlv.edu/, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Final Examinations—The University requires that final exams given at the end of a course occur at the time and on the day specified in the final exam schedule. See the schedule at: http://www.unlv.edu/registrar/calendars.

Incomplete Grades—The grade of I—Incomplete—can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester for undergraduate courses. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

Library Resources—Students may consult with a librarian on research needs. Subject librarians for various classes can be found here: https://www.library.unlv.edu/contact/librarians_by_subject. UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at https://www.library.unlv.edu/.

Rebelmail—By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable.

Religious Holidays Policy—Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the course for fall and spring courses (excepting modular courses), or within the first 7 calendar days of the course for summer and modular courses, of his or her intention to participate in religious holidays which do not fall
on state holidays or periods of class recess. For additional information, please visit: http://catalog.unlv.edu/content.php?catoid=6&navoid=531.

**Transparency in Learning and Teaching**—The University encourages application of the transparency method of constructing assignments for student success. Please see these two links for further information:
https://www.unlv.edu/provost/teachingandlearning

https://www.unlv.edu/provost/transparency

**Tutoring and Coaching**—The Academic Success Center (ASC) provides tutoring, academic success coaching and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, visit [http://www.unlv.edu/asc](http://www.unlv.edu/asc) or call 702-895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A (ASC Coaching Spot). Drop-in tutoring is located on the second floor of the Lied Library and College of Engineering TBE second floor.

**UNLV Writing Center**—One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: [http://writingcenter.unlv.edu/](http://writingcenter.unlv.edu/).

**Any other class specific information**—(e.g., absences, make-up exams, status reporting, extra credit policies, plagiarism/cheating consequences, policy on electronic devices, specialized department or college tutoring programs, bringing children to class, policy on recording classroom lectures, etc.)