



**DEPARTMENT OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**

**Course Syllabus**

**EOH 701 – Measurement Techniques in Infection Prevention**

**Semester/Year: Fall 2022**

**Instructor Information:**

Instructor:

Email:

Office Hours:

Phone:

**Classroom:**

This class is a completely “on-line” class and there is no classroom assigned. This course is taught via Canvas in an online education format. The course is listed in Canvas as EOH 701. It is the responsibility of the students to log into Canvas 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 Canvas. You may be assigned 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 Canvas. The lecture topics and reading assignments schedule is subject to change. Any changes to this schedule will be announced on-line and a revised schedule will be posted in Canvas.

**Course Description:**

Provides the essential training in fundamental epidemiology and biostatistics used in healthcare infection prevention programs. 3 credits

**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:**

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

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### Grade Scale:

93-100%	A
90-92%	A-
87-89%	B+
80-86%	B
70-79%	C
60-69%	D
<60%	F

NOTE: Any final grade below a B (80%) will not qualify for graduate credit.

### Grading Components:

Assignments:	Units	Points per unit	Total Points
Examinations	3	100	300
Graded discussions	10	10	100
<b>TOTAL POINTS</b>			<b>400</b>

Note: Minimum acceptable score for graduate credit is 80% or 320 total points

Examinations: There will be a total of three examination each worth 100 points, The examination component will not be comprehensive, focusing only on material presented since the prior examination. The examination will be in the form of “short answer”, generally one paragraph, the points for each question will be based on the potential complexity of the answer. For example. “List four components for sterilization”, would be worth 5 points, whereas “Discuss the essential components of the sterilization process including possible potential for errors” would be worth 10 points. The examinations are open-book and open-note. Academic integrity is essential. All students are expected to take the examination without outside support or help.

Discussions and readings: There will be discussions of assigned readings embedded with each of the modules. These discussions have a point value of 10 points per discussion. These points will be added to the final total points. Each discussion should examine and comment on the topic in a scientific manner. Readings will be assigned weekly, using a link to the article via the library. For example, <https://www.proquest.com/docview/1784797825?accountid=3611&parentSessionId=dB0sIKqnLyuJnTDND8JzPdxU%2F1bzhL9l8phj31hnBKc%3D&pq-origsite=primo>

These will be posted on Sunday evening of each week. The discussion is due to be completed by the following Friday. Non-participation will result in a “zero” for the week’s topic

### Additional Considerations:

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. There is no provision to “make up” an exam that the student failed to write during the scheduled time period.

“Assignments completed for this course may be used as evidence of student learning in accreditation reports. Students who do not wish their work to be used for accreditation purposes must inform the course instructor in writing by the end of late registration (Monday, September 16, 2022). Your participation and cooperation are appreciated.”

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### Course Schedule:

Week # & Date	Topic	Competencies Covered
Week 1 8/29-9/4	Intro to Healthcare Epidemiology	MPH 01 EAB 01, EAB 02, EAB 03, EAB 05
Week 2 9/5-9/11	Basics of Hospital Surveillance <b>Discussion #1, Due Friday 11:59pm</b>	EAB 02, EAB 04, HCA 02 MPH 02 EAB 05
Week 3 9/12-9/18	SSI and Prevention <b>Discussion #2, Due Friday 11:59pm</b>	EAB 01, EAB 03, EAB 04, EOH 02, MPH 02
Week 4 9/19-9/25	Indwelling devices Infections & Prevention <b>Discussion #3, Due Friday 11:59pm</b>	EAB 01, EAB 03, EAB 04, EOH 02, MPH 02 EAB 05, HCA 02
Week 5 9/26-9/28	Ventilator Associated Events <b>Discussion #4, Due Friday 11:59pm</b>	EAB 01, EAB 03, EAB 04, EOH 02, MPH 02, HCA 02
Week 6 10/3-10/9	Antimicrobial Stewardship <b>EXAMINATION 1 (Weeks 1-5), Open Monday and Closes Sunday, 11:59pm (240 minutes)</b>	MPH 03, MPH 10 MPH 11, HCA 02,
Week 7 10/10-10/16	Immunizations and Occupational Medicine <b>Discussion #5, Due Friday 11:59pm</b>	MPH 05, EOH 01, EOH 02, EAB 05
Week 8 10/17-10/23	Infections in Specialty Care Units <b>Discussion #6, Due Friday 11:59pm</b>	EAB 01, EAB 03, EAB 04, EOH 02, MPH 02
Week 9 10/24-10/30	Outbreak Investigations in Hospital <b>Discussion #7, Due Friday 11:59pm</b>	EAB 01, EAB 03, EAB 04, EOH 02, MPH 02
Week 10 10/31-11/6	Using the NHSN to Manage Data <b>Discussion #8, Due Friday 11:59pm</b>	EAB 04, HCA 005 HCA 03, HCA 05, MPH 01, MPH 02, MPH 03
Week 11 11/7-11/13	Stratified Infection Risks <b>EXAMINATION 2 (Weeks 6-10) , Open Monday and Closes Sunday, 11:59pm (240 minutes)</b>	EAB 01, EAB 02, MPH 04, MPH 18, MPH 02 EOH 05, SBH 04, EOH 03, MPH 19, EOH 03,
Week 12 11/14-11/20	Statistics for the C-Suite Outside Agencies <b>Discussion #9, Due Friday 11:59pm</b>	MPH18, SBH04, EAB 02, MPH 19, MPH 02 HCA 01, HCA 05, MPH 04
Week 13 11/21-11/27	Pay for Performance	MPH 02, HCA 02, HAC 05
Week 14 11/28-12/4	Centers for Medicare Services (CMS) <b>Discussion #10, Due Friday 11:59pm</b>	EOH 05, SBH 04, EOH 03, MPH 19, EOH 03,
Week 15 12/5-12/11	Study Week	
Week 16 12/12-12/18	<b>EXAMINATION 3 –(Weeks 11-14) , Open Monday and Closes Friday, 11:59pm (240 minutes)</b>	

**UNLV Policies:** <https://www.unlv.edu/policies/additional>

#### Public Health Directives

**Face coverings are currently optional for all faculty and students in the classroom.** Students must follow all active UNLV public health directives while enrolled in this class. UNLV public health directives are found at [Health Requirements for Returning to Campus](https://www.unlv.edu/coronavirus/health-requirements), <https://www.unlv.edu/coronavirus/health-requirements>. Students who do not comply with these directives may be asked to leave the classroom. Refusal to follow the guidelines may result in further disciplinary action according to the [UNLV Student Conduct Code](https://www.unlv.edu/sites/default/files/page_files/27/StudentConduct-Code.pdf), [https://www.unlv.edu/sites/default/files/page\\_files/27/StudentConduct-Code.pdf](https://www.unlv.edu/sites/default/files/page_files/27/StudentConduct-Code.pdf), including being administratively withdrawn from the course.

#### Academic Misconduct

Academic integrity is a legitimate concern for every member of the University community. We 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 to always take the ethical path whenever faced with choices. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's educational mission. An example of academic misconduct is plagiarism. Plagiarism is using the

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words or ideas of another person, from the Internet or any other source without proper citation of the source(s). See the [Student Conduct Code](https://www.unlv.edu/studentconduct/student-conduct), <https://www.unlv.edu/studentconduct/student-conduct>.

### Auditing a Course

Auditing a course allows a student to continue attending the lectures and/or laboratories and discussion sessions associated with the course, but the student will not earn a grade for any component of the course. Students who audit a course receive the same educational experience as students taking the course for a grade, but will be excused from exams, assessments, and other evaluative measures that serve the primary purpose of assigning a grade.

### Classroom Conduct

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the rights of other students to learn, or of instructors to teach. Use of devices such as cellular phones and pagers, or other potentially disruptive activities are only permitted with the prior explicit consent of the instructor.

Students are specifically prohibited to record classes without instructor authorization, including online/remote classes (either audio only, or video and audio). The instructor may rescind permission at any time during the class. If a student does not comply with established requirements or obstructs the functioning of the class, the instructor may initiate an administrative withdrawal of the student from the course.

Since the COVID-19 pandemic forced some instruction to be delivered remotely starting in Spring 2020, numerous students have asked instructors to record their synchronous classes, so that they can access them at their convenience. Instructors who agree to record their classes (audio only, or video and audio) should inform students in advance. Recorded lectures may not be broadly released to anyone, but made available exclusively to those students enrolled in the class during the particular academic term. Recorded lectures must be stored securely, and are subject to the Nevada System of Higher Education's Records Retention Policy, meaning that the recordings can only be deleted 120 days after the end of class (i.e., after grades are posted). Once this requirement is met, the recordings should be deleted. Class recordings are protected from disclosure, as they are deemed part of an educational record under the Family Educational Rights and Privacy Act (FERPA).

### 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 student or employee 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 [copyright policy information](https://www.unlv.edu/provost/copyright) is available at <https://www.unlv.edu/provost/copyright>.

### Disability Resource Center (DRC)

The [UNLV Disability Resource Center](https://www.unlv.edu/drc) (Campus Resource Center (CRC) 1st floor, <https://www.unlv.edu/drc>, telephone 702-895-0866) provides resources for students with disabilities. Students who believe that they may need academic accommodations due to a permanent disability, temporary or permanent medical need, or academic support due to pregnancy are encouraged to contact the DRC as early as possible in the academic term. A Disabilities Specialist will discuss what options may be available to you. Students who are already registered with the DRC should request their accommodations online each semester, and make an appointment to discuss their accommodations with their instructors.

### Final Examinations

The University requires that final exams given at the end of a course occur on the date and at the time specified in the Final Exam schedule. The Final Exam schedule is typically available at the start of the semester, and the classroom locations are available approximately one month before the end of the semester. See the [Final Exam Schedule](https://www.unlv.edu/registrar/calendars), <https://www.unlv.edu/registrar/calendars>.

### Identity Verification and Online Course Requirements

All UNLV students must use their Campus-issued ACE ID and password to log in to WebCampus-Canvas. UNLV students enrolled in online or hybrid courses are expected to read and adhere to the [Student Academic Misconduct Policy](https://www.unlv.edu/studentconduct/misconduct/policy), <https://www.unlv.edu/studentconduct/misconduct/policy>, which states that "acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment" is a form of academic misconduct. Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute,

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and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy. UNLV students enrolled in online courses are also expected to read and adhere to the [Acceptable Use of Computing and Information Technology Resources Policy](https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy), <https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy>, which prohibits sharing university accounts with other persons without authorization. To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

### Incomplete Grades

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. 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 period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register for the course, but make individual arrangements with the instructor who assigned the “I” grade.

### Library Resources

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the [Libraries’ Research Consultation](https://guides.library.unlv.edu/appointments/librarian) website, <https://guides.library.unlv.edu/appointments/librarian>. You can also [ask the library staff](https://ask.library.unlv.edu/) questions via chat and text message at <https://ask.library.unlv.edu/>.

### Missed Classwork

Any student missing class, quizzes, examinations, or any other class or laboratory work because of observance of religious holidays will be given an opportunity during that semester to make up the missed work. The make-up opportunity will apply to the religious holiday absence only. It is the responsibility of the student to notify the instructor within the first 14 calendar days of the course for Fall and Spring courses (except for modular courses), or within the first 7 calendar days of the course for Summer and modular courses, of their intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit the Missed Classwork policy, under Registration Policies, on the [Academic Policies](https://catalog.unlv.edu/content.php?catoid=39&navoid=10666) webpage, <https://catalog.unlv.edu/content.php?catoid=39&navoid=10666>.

In accordance with the policy approved by the Faculty Senate regarding missed class time and assignments, students who represent UNLV in any official extracurricular activity will also have the opportunity to make up assignments, provided that the student submits official written notification to the instructor no less than one week prior to the missed class(es).

The spirit and intent of the policy for missed classwork is to offer fair and equitable assessment opportunities to all students, including those representing the University in extracurricular activities. Instructors should consider, for example, that in courses which offer a “Drop one” option for the lowest assignment, quiz, or exam, assigning the student a grade of zero for an excused absence for extracurricular activity is both contrary to the intent of the

Faculty Senate’s policy, and an infringement on the student’s right to complete all work for the course.

This policy will not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the University that could be reasonably avoided. There should be a good faith effort by both the instructor and the student to agree to a reasonable resolution. When disagreements regarding this policy arise, decisions can be appealed to the Department Chair/School Director, College/School Dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to academic recruitment activities, competitive intercollegiate athletics, fine arts activities, liberal arts competitions, science and engineering competitions, and any other event or activity sanctioned by a College/School Dean, and/or by the Executive Vice President and Provost.

### Rebelmail

Rebelmail is UNLV’s official email system for students and by University policy, instructors and staff should only send emails to students’ Rebelmail accounts. Rebelmail is one of the primary ways in which students receive official University communications, information about deadlines, major Campus events, and announcements. All UNLV students receive a

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Rebemail account after they have been admitted to the University. Sending emails within WebCampus-Canvas is also acceptable.

### Title IX

UNLV is committed to providing an environment free of all forms of unlawful discrimination including sexual and gender-based discrimination, harassment, and violence like sexual assault, intimate partner violence, and stalking. If you, or someone you know, has experienced or is experiencing these types of behaviors, know that you are not alone. Resources and support are available. To learn more or to report an incident, please visit the [Office of Equal Employment and Title IX website](https://www.unlv.edu/compliance) at <https://www.unlv.edu/compliance>. Please be aware that as an instructor, I am not a confidential resource, and I will need to report incidents of sexual misconduct to UNLV's Title IX Coordinator. You can also report concerns directly using the [online reporting form](https://cm.maxient.com/reportingform.php?UnivofNevadaLasVegas&layout_id=18), at [https://cm.maxient.com/reportingform.php?UnivofNevadaLasVegas&layout\\_id=18](https://cm.maxient.com/reportingform.php?UnivofNevadaLasVegas&layout_id=18), or [via email](mailto:titleixcoordinator@unlv.edu) at [titleixcoordinator@unlv.edu](mailto:titleixcoordinator@unlv.edu) or 702-895-4055. For confidential support in matters of sexual violence, relationship/family violence, or stalking, contact [the Care Center](https://www.unlv.edu/carecenter) at <https://www.unlv.edu/carecenter> or 702-895- 0602.

### Tutoring and Coaching

The Academic Success Center (ASC), at the Claude I. Howard Building, 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, please visit the [ASC website](https://www.unlv.edu/asc), <https://www.unlv.edu/asc>, or call 702-895-3177. The ASC is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207).

### UNLV Writing Center

One-on-one or small group assistance with writing is available free of charge to UNLV students at the [Writing Center](https://writingcenter.unlv.edu/), <https://writingcenter.unlv.edu/>, located in the Central Desert Complex, Building 3, Room 301 (CDC 3–301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, telephone 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

### 988 FREE 24/7 SUICIDE & CRISIS LIFELINE

In addition to campus resources such as the [Counseling and Psychological Services \(CAPS\)](https://www.unlv.edu/caps) website at <https://www.unlv.edu/caps>, visiting the [YOU@UNLV website](https://you.unlv.edu/) at <https://you.unlv.edu/>, and [Early Alert](https://www.unlv.edu/graduatecollege/academy/early-alert) (for graduate students, at <https://www.unlv.edu/graduatecollege/academy/early-alert>), you may now call or text 988 or [chat at 988lifeline.org](https://988lifeline.org) if you or someone you know is in crisis and in need of support.

### Diversity Statement

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. Accordingly, the University supports understanding and appreciation of all members of its community, regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation. Please see [University Statements and Compliance](https://www.unlv.edu/about/statements-compliance), <https://www.unlv.edu/about/statements-compliance>.

A successful learning experience requires mutual respect and trust between the students and the instructor. Accordingly, the instructor asks that students be willing to listen to one another's points of view, acknowledging that there may be disagreements, keep discussion and comments on topic, and use first person, positive language when expressing their perspectives.

### UNLV Land Acknowledgement

UNLV is situated on the traditional homelands of Indigenous groups, including the Nuwu or Nuwuvi, Southern Paiute People, descendants of the Tudinu, or Desert People. We honor and offer gratitude for those who have stewarded the land; for the land itself; and for the opportunity to cultivate a thriving, diverse, inclusive, and just scholarly community here today that works for a better tomorrow for all.