Text and Reference material:
No textbooks are required for this course. There will be links to reprints and related websites where the student will be required to review pertinent materials. The materials included in these exercises will be included in the appropriate module’s examination. Please review the requirements for an APA format paper at the following website https://owl.english.purdue.edu/owl/resource/560/01/ I will expect an attestation by the end of the third week that you have accessed this website, or other documentation that you have a clear and concise understanding of how to write professional papers in the APA format.

Course Content: In this course students will study the process and practices essential to developing and maintaining functioning infection prevention program for healthcare facilities.

Course Objectives: Upon completion of this course, students will have an understanding of:
1) Regulatory aspects of infection prevention including Centers for Medicare Services (CMS),
2) Microbiology of hospital infections,
3) Sterile processing, and decontamination of equipment and environment,
4) Educational aspects of infection prevention,
5) The National Healthcare Safety Network (NHSN),
6) Data and data processing.

Exams/Grading: There will be a total of four examinations, each worth 100 points. The examination will not be comprehensive, focusing only on material presented, and the relevant assigned readings since the prior examination. An extra credit exercise will be available at the time of the last examination. The questions for this exercise will be based on all the material discussed during the course. No credit will be subtracted nor will your score be penalized if you miss a question. IE The extra credit examination has a value of 20 points and you receive 10 points on the exercise. You will then have 10 points added to your composite score for the class. (Total of all exam points + Term paper points + extra credit (Total possible points 520) /500)

Grading:
Each examination will be worth 100 points.
Four examinations will be administered during one week.
One APA-style paper on a topic provided by the instructor, approximately 6-8 pages in length, worth 100 points
  70 Points for content
  10 Points for bibliography (currency and composition)
  10 Points for grammar and syntax
  10 Points for adherence to APA style manual
Total cumulative score is 500 points
Extra credit quiz 20 points
Minimum acceptable score for graduate credit – 400 (80% of 500)

**Late papers and make-up exams:** Make-up exams (except for the final) must be scheduled with the instructor and completed within one week (7 calendar days). A make-up final exam must be scheduled with the instructor and completed by the end of final exam week. The examinations are scheduled for 240 minutes (4 hours).

Once an examination is opened and begun, it must be completed within the prescribed timeframe. It is the sole responsibility of the student to ensure that they allow sufficient time to complete the examination as well as avoiding any scheduled interruptions of the WebCampus platform.

The examinations are "open" for 6 days. Once you commence the examination you will have four hours to complete the test unless prior arrangement have been made. If you do not finish the examination within the prescribed time frame, you will receive the score for the portion of the exam you completed and there will be no make-up available. If you fail the take the examination when it is available you will not be able to take the examination. If you believe that you may not be able to take the examination during the time frame, you must contact the instructor before the event". **No make-up examinations or time-extensions will be permitted for failure to observe these warning.**

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

NOTE: Anything below a 80% (B) will not allow the class to qualify for graduate credit or for inclusion in the requirements for the Certificate.

Learning Outcomes

By the end of this course students should be able to successfully:
- List the pathogens that are commonly encountered in the infection prevention program and general acute care hospitals.
- Discuss the policies and practices necessary to monitor sterilization and disinfection in the healthcare environment.
- Develop infection prevention policies based on current scientific evidence and practices.
- Prepare and evaluate epidemiological data from infection prevention programs.
- Critically read scientific literature in the field of infection prevention.
By the end of this course students should be able to successfully apply the following competencies:

**MPH 01**  Apply epidemiological methods to the breadth of settings and situations in public health practice

**MPH 03**  Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate

**MPH 04**  Interpret results of data analysis for public health research, policy, or practice

**MPH 05**  Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings

**MPH 16**  Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making

**EAB 01**  Explain the importance of epidemiology and biostatistics for informing scientific, ethical, economic, and political discussion of health issues.

**EAB 03**  Identify key sources of data for epidemiologic and biostatistical studies.

**EAB 05**  Monitor the occurrence of health outcomes, organizing data from surveillance, investigations, and other sources, and use those data to support the evaluation of the effectiveness of public health programs.

**EOH 01**  Characterize the biological, chemical, and physical hazards affecting human and ecosystem health

**EOH 02**  Understand the effects of environmental contaminants and infectious diseases on the human body and apply knowledge of these factors in developing prevention and management strategies and making policy recommendations

**EOH 03**  Perform complex literature searches that aggregate results from multiple sources, assess literature quality, and demonstrate relevance to the student's work

**EOH 05**  Effectively communicate research findings both in writing and orally to diverse stakeholders

**HCA 02**  Apply performance improvement concepts to address organizational performance issues aligned with quality, cost, and access.

**MHA A2**  Standards & Regulations (Identify standards, laws, regulatory and accreditation criteria applicable to health care organization).

**MHA B1**  Effective written, oral and presentation skills (be able to communicate in a clear and logical manner within both formal and informal groups).

**MHA D12**  Quality Improvement/Performance Improvement (Define and assess quality and performance)

**MHA D13**  Planning and Managing Projects (Able to design, plan, implement and assess projects related to performance, structure and outcomes of health services).

**MHA D14**  Health policy formulation, implementation and evaluation (Identify policy issues and key stakeholders; design and evaluate policy strategies).

This course is taught via WebCampus in an online education format. The course is listed in WebCampus as EOH 730. 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. Additional materials such as papers, on-line materials, or book chapters will assigned to supplement the instruction. These materials will be included on the block examinations. Reading assignments will be posted in WebCampus within each module.

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 WebCampus.
### TENTATIVE COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/14/18</td>
<td>Microbiology I</td>
<td>EOH 01; EOH 02; MPH 012</td>
</tr>
<tr>
<td>5/21/18</td>
<td>Microbiology II</td>
<td>EOH 01; EOH 02; MPH 012</td>
</tr>
<tr>
<td>5/28/18</td>
<td>Microbiology III</td>
<td>EOH 01; EOH 02; MPH 012</td>
</tr>
<tr>
<td>6/4/18</td>
<td>Immunology</td>
<td>EOH 01; EOH 02; MPH 012</td>
</tr>
<tr>
<td>6/4-8/18</td>
<td>Examination #1 (Material week 1-3)</td>
<td></td>
</tr>
<tr>
<td>6/11/18</td>
<td>Sterilization &amp; Disinfection</td>
<td>EOH 02; MHA A1; MHA A2</td>
</tr>
<tr>
<td>6/18/18</td>
<td>Hospital Departments</td>
<td>EOH 01 – HCA 01 HCA 04; MHA A2</td>
</tr>
<tr>
<td>6/25/18</td>
<td>Hospital Construction</td>
<td>EOH 01 – HCA 01 HCA 04; MHA A2</td>
</tr>
<tr>
<td>6/25-29/18</td>
<td>Examination #2 (Material weeks 4-6)</td>
<td></td>
</tr>
<tr>
<td>7/2/18</td>
<td>Epidemiology &amp; Statistics</td>
<td>MPH 01; MPH 02; MPH 03; EAB 01 EAB 03</td>
</tr>
<tr>
<td>7/9/18</td>
<td>Data Management &amp; NHSN</td>
<td>MPH 01; MPH 02; MPH 03; EAB 01 EAB 03</td>
</tr>
<tr>
<td>7/16/18</td>
<td>Infectious diseases</td>
<td>EOH 01; EOH 02; MPH 012</td>
</tr>
<tr>
<td>7/16-20/18</td>
<td>Examination #3 (Materials weeks 5-9)</td>
<td></td>
</tr>
<tr>
<td>7/23/18</td>
<td>Antimicrobial Stewardship</td>
<td>MPH 12; MPH 15; MHA A1; MHA D12; MHA D13; MHA D14</td>
</tr>
<tr>
<td>7/30/18</td>
<td>Principles of Education</td>
<td>MHA A1; MHA D12; EOH 01; MHA D14</td>
</tr>
<tr>
<td></td>
<td>Regulatory Requirements</td>
<td>MHA A1; MHA D12; MPH 12; MPH 14</td>
</tr>
<tr>
<td>8/6/18</td>
<td>Examination #4 (Materials weeks 10-12)</td>
<td></td>
</tr>
</tbody>
</table>

**ADDITIONAL COURSE INFORMATION – Summer 2018**

Student Work Samples - 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. Your participation and cooperation are appreciated.