



## Course Number and Title: HDM 204 All-Hazards Management and Critical Infrastructure Protection

**Campus Location:**

Dover

**Effective Date:**

2018-51

**Prerequisite:**

HDM 101, HDM 103, HDM 105

**Co-Requisites:**

None

**Course Credits and Hours:**

3.00 credits

3.00 lecture hours/week

0.00 lab hours/week

**Course Description:**

This course emphasizes the plans and procedures implemented by emergency management agencies as they prepare for and respond to a variety of emergency situations. Students study the elements of critical infrastructure protection in the United States and plans for continuity of operations in a pre/post-disaster environment.

**Required Text(s):**

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

**Additional Materials:**

None

**Schedule Type:**

Classroom Course

Hybrid Course

Online Course

**Disclaimer:**

None

**Core Course Performance Objectives (CCPOs):**

1. Describe emergency management planning concepts specific to the cycle of preparedness, response, recovery, and mitigation. (CCC 1; PGC 1)
2. Prepare risk and vulnerability assessments using concepts and tools from historical, potential, accidental, man-made, and natural hazards of all types. (CCC 1, 5; PGC 2, 3, 4)
3. Summarize elements of the United States' critical infrastructures and protections associated with them. (CCC 1, 6; PGC 1, 2)
4. Compare and contrast historical nation-state threats to the homeland with current non-state-sponsored and domestic terrorist threats. (CCC 1, 2, 3; PGC 1, 3, 4)
5. Evaluate the history and current threat of chemical, biological, radiological, nuclear, and explosive (CBRNE) weapons of mass destruction (WMD). (CCC 1, 2, 3; PGC 1, 2, 3, 4)
6. Relate security concepts to key elements of the United States' critical infrastructure. (CCC 1, 2; PGC 1, 2, 3, 4)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

**Measurable Performance Objectives (MPOs):**

Upon completion of this course, the student will:

1. Describe emergency management planning concepts specific to the cycle of preparedness, response, recovery, and mitigation.
  1. Adapt risk reduction concepts to a real-world situation.
  2. Construct a personal or family preparedness plan.
  3. Role play appropriately in crisis and/or recovery simulation(s).
2. Prepare risk and vulnerability assessments using concepts and tools from historical, potential, accidental, man-made, and natural hazards of all types.
  1. Identify event-specific risk factors to be assessed.
  2. Create a risk matrix for the campus.
  3. Conduct a risk assessment.
3. Summarize elements of the United States' critical infrastructure and protections associated with them.
  1. Discuss risks to agriculture and the food supply.
  2. Discuss potential risks specific to the energy sector.
  3. Identify potential key targets of terrorism within our infrastructure.
  4. Discuss developments in improving the security of various elements of critical infrastructure.
4. Compare and contrast historical nation-state threats to the homeland with current non-state-sponsored and domestic terrorist threats.
  1. Identify current state sponsors of terror.
  2. Contrast and compare current non-state sponsored terrorists.
  3. Discuss various tactics of modern terrorists.
  4. Identify and discuss various counter-terrorism techniques.
5. Evaluate the history and current threat of chemical, biological, radiological, nuclear, and explosive (CBRNE) weapons of mass destruction (WMD).
  1. Discuss various known chemical weapons.
  2. Discuss the potential effects of biological WMD.
  3. Discuss the sources of dirty bomb technology and responses to the threat of their use.
6. Relate security concepts to key elements of United States' critical infrastructure.
  1. Simulate critical infrastructure protection strategies.
  2. Discuss counter-terrorism measures in use today.
  3. Discuss the public/private sector responses to cyber-terrorism.
  4. Discuss the role modern media plays today regarding all-hazards management.

**Evaluation Criteria/Policies:**

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

**Core Curriculum Competencies (CCCs are the competencies every graduate will develop):**

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

**Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):**

1. Articulate the roles and responsibilities of key Criminal Justice and Homeland Security agencies and organizations.
2. Demonstrate "all-hazards" planning, mitigation, response and recovery.
3. Apply mitigation and crisis intervention strategies used by integrated disaster response teams to diverse citizen populations.
4. Articulate the psychology and history of domestic and international terrorism.

**Disabilities Support Statement:**

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.

