



## Course Number and Title: ITN 273 Ethical Hacking

**Campus Location:**

Georgetown, Dover, Stanton, Wilmington

**Effective Date:**

2020-51

**Prerequisite:**

ITN 150, ITN 170

**Co-Requisites:**

None

**Course Credits and Hours:**

3.00 credits

2.00 lecture hours/week

2.00 lab hours/week

**Course Description:**

This course prepares students to conduct ethical hacking within networked environments. Topics include reconnaissance, attack techniques, and compromise of systems. Students use penetration test tools to compromise systems in a lab environment, and prepare a summary of findings.

**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:**

Access to high-speed Internet.

**Schedule Type:**

Classroom Course

Video Conferencing

Web Conferencing

Hybrid Course

Online Course

**Disclaimer:**

None

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

1. Explain the importance of ethical practices of penetration testing. (CCC 1, 4; PGC 2)
2. Plan and execute a penetration test. (CCC 1, 2, 3, 4; PGC 1, 3, 4)
3. Produce and present an incident report based on the findings of the penetration test. (CCC 1, 2, 3, 4, 5; PGC 1, 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. Explain the importance of ethical practices of penetration testing.
  1. Define *ethical hacking*.
  2. Identify ethical standards and relevant application of computer crime laws.
  3. Articulate the value of the penetration test to the client.
  4. Define the scope of a penetration test given a scenario.
  5. Articulate the risks of a penetration test given a scenario.
2. Plan and execute a penetration test.
  1. Describe the different techniques used in penetration testing.
  2. Research and design a plan to prepare for the penetration test.
  3. Prioritize the vulnerabilities of an enterprise system.
  4. Select the appropriate security testing tools to comprise systems given a scenario.
3. Produce and present summary of findings of a penetration test.
  1. Evaluate vulnerabilities and the steps for remediation.
  2. Prepare and organize a summary of findings.
  3. Create and present a final penetration test report.

**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. Solve technology-related problems using critical thinking and troubleshooting skills.
2. Articulate the role of the technology professional in organizations to support the ethical use of information technology.
3. Apply fundamental security concepts and strategies for maintaining and securing information technology.
4. Read and interpret technical information and effectively communicate to a wide range of audiences using oral, print, and multimedia strategies.
5. Demonstrate the importance of lifelong learning that empowers personal and professional growth.

**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.