Course Number and Title: CIS 141 - Operating Systems I

Campus Location:
Georgetown, Dover, Wilmington

Effective Date:
2018-51

Prerequisite:
ENG 090 or higher, MAT 020 or higher, SSC 100 or concurrent

Co-Requisites:
none

Course Credits and Hours:
3.00 credits
2.00 lecture hours/week
2.00 lab hours/week

Course Description:
This course provides a basic overview of Windows and Linux. Students will install, configure, maintain, and troubleshoot the operating systems. Students will be introduced to basic operating system security.

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. Demonstrate an understanding of management of computer operating system's architecture and command utilities. (CCC 2; PGC 2)
2. Manage system resources. (CCC 2, 4; PGC 1, 2)
3. Apply basic computer skills to maintain operating system security. (CCC 2, 4; PGC 1, 2)

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. Demonstrate an understanding of management of computer operating system's architecture and command utilities.
   1. Describe the functions and major components of operating systems.
   2. Compare and contrast Windows, Linux, and other operating systems.
   3. Describe the different file system architectures.
   4. Develop a plan to organize files.
   5. Select appropriate operating system(s) for a given scenario
   6. Install operating systems.
2. Manage system resources.
   1. Manipulate operating system resources via command line interface.
   2. Utilize the common utilities to administrate the system.
   3. Utilize system utilities to backup and restore system resources, including files, user accounts, and profiles.
   4. Install, maintain, and remove application software.
   5. Apply system commands to optimize system performance.
3. Apply basic computer skills to maintain operating system security.
   1. Describe the importance of system security maintenance strategies.
   2. Create, maintain, and modify user accounts and profiles.
   3. Write and modify file permissions associated with user accounts.
   4. Choose different strategies to maintain and improve system security.

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 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. Utilize the latest integrated application software package.
2. Install, configure and secure operating systems and application software.
3. Design, write, and debug structured business computer programs.
4. Analyze and design complex computer applications to solve business problems.
5. Integrate the principles of the Internet into web development.

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 web page or visit the campus Advising Center.