



## Course Number and Title: ISY 150 Introductory Scripting

**Campus Location:**

Georgetown, Dover, Wilmington

**Effective Date:**

2018-51

**Prerequisite:**

CIS 120, 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 examines various types of scripting languages and their appropriate use for integration of applications and systems. Topics include the use of scripting languages to facilitate the management, integration, and security of the systems that support an organization. Students experience a hands-on application and problem-solving introduction to script programming.

**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

Online Course

**Disclaimer:**

None

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

1. Construct programs using scripting languages. (CCC 1, 2, 4, 6; PGC 3, 4, 7)
2. Design and implement simple programs from user requirements. (CCC 1, 2, 3, 4, 6; PGC 4, 6, 9)
3. Construct logical conditions with appropriate control statements. (CCC 2, 4; PGC 4, 5)
4. Create and manipulate objects that store a collection of data. (CCC 4, 6; PGC 1, 4, 5)
5. Modify and use existing industry scripts. (CCC 2, 5; PGC 1, 4, 5, 9)

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. Construct programs using scripting languages.
  1. Describe the programming development process.
  2. Write programs using the system command line.
  3. Run programs in scripting mode.
2. Design and implement simple programs from user requirements.
  1. Accept and display console input and output.
  2. Convert variables to the appropriate data type.
  3. Document the intended operation of program source code.
  4. Write program code that produces properly formatted output reports.
3. Construct logical conditions with appropriate control statements.
  1. Compare and contrast control structures.
  2. Determine correct use of sequence, decision, and repetition structures.
  3. Construct and execute program subroutines and functions.
  4. Write exception handling procedures.
4. Create and manipulate objects that store a collection of data.
  1. Read and write large sets of data.
  2. Search for items in a data collection.
  3. Interpret data using built-in functions.
5. Modify and use existing industry scripts.
  1. Evaluate relevant scripts for use in system maintenance.
  2. Modify existing scripts.
  3. Validate script modifications.

**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. Identify and remediate vulnerabilities.
2. Design, plan, and install network systems.
3. Install and configure operating systems.
4. Demonstrate the ability to write and debug scripts.
5. Demonstrate professionalism and ethical responsibility.
6. Communicate effectively to diverse groups of stakeholders.
7. Perform change management analysis and documentation.
8. Perform evidence collection and forensics analysis.
9. Create, modify, and/or implement security policies.

**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.