CIT 112 - SCRIPTING AND AUTOMATION

Course Description

This course introduces students to scripting and programming to achieve realizable goals in a networked environment. Students will write programs that will be reusable, scalable, and efficient for interfacing with a system, retrieving information from various networked resources, and performing routine tasks. Group 2 Course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

CIT 110, may be taken concurrently.

Course Learning Outcomes

Knowledge:
- Summarize appropriate data types for given applications.
- Summarize control mechanisms to perform algorithmic functions.
- Summarize programming standards used in business-level applications.
- Summarize effective scripting techniques.
- Identify areas where automation can be implemented.

Application:
- Demonstrate the programming process to develop applications.
- Implement programming methodology to create scripts on computer systems.
- Implement automation tasks to perform routine tasks on systems.

Integration:
- Evaluate criteria for an application to determine required scripting elements.
- Evaluate criteria to determine need for automation.

Human Dimension:
- Collaborate with others to achieve desired outcomes.

Caring - Civic Learning:
- Identify quality of code as it affects user experience and usability.
- Evaluate the ethical dilemmas that may arise from automation and scripting.

Learning How to Learn:
- Acknowledge that technology is constantly evolving requiring new skillsets.
- Apply knowledge of scripting and automation into further Information Technology courses.