**STATE UNIVERSITY OF NEW YORK**

**MOHAWK VALLEY COMMUNITY COLLEGE**

**UTICA, NEW YORK 13502**

*Course outline*

CI 233- *UNIX Administration and Security*

Course Description

This course provides students with an understanding of installation, management and security of the UNIX operating system from the UNIX command line. System automation, shell scripting, and disaster recovery will also be covered.

Student Learning Outcomes

At the conclusion of this course the student will be able to:

* 1. Develop Bash shell and script programs
  2. Demonstrate understanding of basic networking, firewalls, and network concepts and apply appropriate troubleshooting procedures in a Unix environment
  3. Apply advanced text manipulation techniques utilizing Unix filters and regular expressions
  4. Perform basic Unix systems administration tasks, including managing user accounts, controlling system access, managing services, and configuring the environment
  5. Plan and implement the installation of Unix software and systems including maintenance and upgrade.

6. Design and manage backup and recovery procedures to guard against system failure

10/25/18