The Certificate of Achievement in System Administration prepare students to either enter the workforce as an entry-level information and communication technologies (ICT) professional or pursue a bachelor's degree in managing information systems.

A system administrator, or sysadmin, is a person who is responsible for the upkeep, configuration, and reliable operation of computer systems, especially multi-user computers such as servers. The system administrator seeks to ensure that the uptime, performance, resources, and security of the computers he or she manages meet the needs of the users, without exceeding the budget. To meet these needs a system administrator may acquire, install, or upgrade computer components and software; automate routine tasks; write computer programs; troubleshoot; train and/or supervise staff; and provide technical support.

Generally, no courses beyond standard high school diploma requirements are needed to be admitted into these programs. However, most recommend a background in computer science, information systems, and information and communication technologies.

Most graduates enter the workforce as system administrator or sysadmin. New employment opportunities as Storage (SAN) Administrator require the system administrator to create, provision, add, or remove storage to/from computer systems and work with virtualization. Sysadmins can also work as a database administrator, network administrator, security administrator and/or a web administrator. Tasks include managing multiple sites, administering security, and configuring necessary components and software. Responsibilities may also include software change management.

As the use of technology expands throughout the economy, available positions in system administration are expected to grow. Employment of network and computer systems administrators is expected to grow 28% from 2010 to 2020, according to the Bureau of Labor Statistics (www.bls.gov). Demand for these workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks.

**Requirements for Certificate of Achievement:**

a) Complete Major Field courses and either Linux System Administrator Focus or Microsoft System Administrator Focus.

b) Complete at least six units at Ohlone College.

c) Maintain a 2.0 grade point average in Major Field and Focus courses.

**Student Learning Outcomes**

1. Setup, configure, maintain, and troubleshoot computer systems; stand-alone application; and/or various computer operating systems (client, server, and network).

2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.
MAJOR FIELD
CNET-120  VMware: Install, Configure, Manage  2
CNET-122A  Information Storage and Management - EMC  2
CNET-122B  Cloud Infrastructure and Services  2
CNET-146  Introduction to UNIX/Linux  3
CNET-155A  Introduction to Networks (CCNA1)  3
CNET-162  Windows Server Installation and Configuration Administration  2
CNET-164  Windows Server Administration  2
COMM-125  Career Communication OR  3
ENGL-156  Introduction to Report and Technical Writing  (3)

SYSTEM ADMINISTRATOR FOCUS
Complete either the Linux System Administrator Focus or the Microsoft System Administrator Focus.

Linux System Administrator Focus  8
CNET-140  Linux System Administration I (LPI-1)  4
CNET-141  Linux System Administration II (LPI-2) OR  4

Microsoft System Administrator Focus  8
CNET-166  Windows Server - Advanced Services  2
CNET-167  Microsoft Exchange Server  2
CNET-168A  Querying Microsoft SQL Server  2
CNET-168B  Administering Microsoft SQL Server  2

Total Required Units:  27