



**CURRICULUM GUIDE  
2019-2020**

**INFORMATION TECHNOLOGY**

**Certificate of Achievement in Information Technology**

The program in Information Technology (IT) prepares students to either enter the workforce as an IT support technician or IT system administrator, or pursue a bachelor's degree in managing information systems. IT support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, or via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. They perform network maintenance to ensure networks operate correctly with minimal interruption. Graduates of the Associate in Science in Information Technology are prepared and eligible to sit for CompTIA's A+ and Network+ certification exams. Optional elective courses prep students for CompTIA's Server+ and Security+ exams.

**Requirements for Certificate of Achievement:**

- a) Complete Major Field, Elective Courses, and Supporting Courses.
- b) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field, Elective Courses, and Supporting Courses.

**Student Learning Outcomes**

- 1. Apply fundamental knowledge of computing and the current use of technology techniques, skills, and tools necessary for the computing practice.
- 2. Demonstrate the ability to locate, critically evaluate, and solve business problems with technology solutions using qualitative and quantitative information.
- 3. Demonstrate a fundamental ability to identify and analyze user needs in the selection, creation, evaluation, and administration of computer-based systems.
- 4. Provide information technology technical assistance to computer and network users.
- 5. Demonstrate appreciation of the IT career field and the need to be lifelong learners.

**MAJOR FIELD**

CNET-103	Introduction to Business Intelligence OR	4
CS-101	Introduction to Computers and Information Technology	(3)
CNET-105	IT Essentials (CompTIA A+)	4
CNET-154	Computer Network Fundamentals (Network+) OR	3
CNET-155A	Introduction to Networks (CCNA1)	(3)
CS-102	Introduction to Computer Programming Using C++	<u>3</u>
		13-14

**ELECTIVE COURSES**

Complete a minimum of six units from the following courses:

CNET-108	IT Project Management	3
CNET-135	Oracle Database Administration	2
CNET-137	Introduction to SQL	4
CNET-151	Systems and Network Administration	3
CNET-155B	Routing and Switching Essentials (CCNA2)	3
CNET-170	Network Security (Security+)	4
CNET-173	Ethical Hacking	3
CNET-174	Computer Forensics	<u>3</u>
		6-8

**SUPPORTING COURSES**

Complete a minimum of three units from the following courses:

CNET-140	Linux System Administration I (LPI-1)	4
CNET-146	Introduction to UNIX/Linux	3
CNET-162	Windows Server Installation and Configuration Administration	2
CNET-164	Windows Server Administration	<u>2</u>
		3-4

Total Required Units: 22-26