



## **CURRICULUM GUIDE 2017-2018**

### **INFORMATION TECHNOLOGY**

#### **Associate in Science in Information Technology and Certificate of Achievement in Information Technology**

The associate degree and the Certificate of Achievement in Information Technology prepare students to either enter the workforce as an entry-level computer or network support technician or pursue a baccalaureate degree in managing information systems.

Computer support technicians provide technical assistance to computer users. They answer questions or resolve computer problems for clients in person, 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 with the associate degree 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 Associate in Science Degree:**

- a) Complete Major Field, Elective Courses, and Supporting Course with a grade of C or better.
- b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.

#### **Requirements for Certificate of Achievement:**

- a) Complete Major Field and Elective courses.
- 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. 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-105	IT Essentials (CompTIA A+)	4
CNET-154	Computer Network Fundamentals (Network+) OR	3
CNET-155A	Introduction to Networks (CCNA1)	(3)
CS-101	Introduction to Computers and Information Technology	3
CS-102	Introduction to Computer Programming Using C++	<u>3</u>
		13

**ELECTIVE COURSES**

Complete one option below. 6-10

**IT Management**

BA-116	Business English and Communication	4
CNET-108	IT Project Management	3

**Database**

CNET-135	Oracle Database Administration	2
CNET-137	Introduction to SQL	4

**System Administration and Networking**

CNET-151	Systems and Network Administration	3
CNET-155B	Routing and Switching Essentials (CCNA2)	3

**Cybersecurity**

CNET-170	Network Security (Security+)	4
CNET-173	Ethical Hacking	3
CNET-174	Computer Forensics	3

**SUPPORTING COURSE**

Complete one course from the following courses:

MATH-101A	Calculus with Analytic Geometry	5
MATH-159	Introduction to Statistics	5
MATH-166	Finite Mathematics	<u>4</u>
		4-5

Total Required Units: 23-28