

Information Technology

Certificate of Achievement : 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.

- 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 Elective courses.

Associate in Science: 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.

- 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.

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+)	3
or	
CNET 155A Introduction to Networks (CCNA1)	3
CS 101 Introduction to Computers and Information Technology	3
CS 102 Introduction to Computer Programming Using C++	3

Total Units = 13

ELECTIVE COURSES

Complete one option below

IT Management	0
BA 116 Business English and Communication	4
CNET 108 IT Project Management	3
Database	0
CNET 135 Oracle Database Administration	2
CNET 137 Introduction to SQL	4
System Administration and Networking	0
CNET 151 Systems and Network Administration	3
CNET 155B Routing and Switching Essentials (CCNA2)	3
Cybersecurity	0
CNET 170 Network Security (Security+)	4
CNET 173 Ethical Hacking	3
CNET 174 Computer Forensics	3

Total Units = 6.00 - 10.00

SUPPORTING COURSE

Complete one course

MATH 101A Calculus With Analytic Geometry	5
MATH 159 Introduction to Statistics	5
MATH 166 Finite Mathematics	4

Total Units = 4.00 - 5.00

Total Units = 23.00 - 28.00