



CURRICULUM GUIDE 2020-2021

INFORMATION TECHNOLOGY

Associate in Science in Information Technology

The Associate in Science in Information Technology 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, 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 prepare students for CompTIA's Server+ and Security+ exams.

Requirements for Associate in Science Degree:

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

Student Learning Outcomes

- Apply fundamental knowledge of computing and the current use of technology techniques, skills, and tools necessary for the computing practice.
- Demonstrate the ability to locate, critically evaluate, and solve business problems with technology solutions using qualitative and quantitative information.
- Demonstrate a fundamental ability to identify and analyze user needs in the selection, creation, evaluation, and administration of computer-based systems.
- Provide information technology technical assistance to computer and network users.
- Demonstrate appreciation of the IT career field and the need to be lifelong learners.
- Demonstrate a basic knowledge and skills of computer programming language.
- Demonstrate broad understanding of Information Technology related knowledge in the area of networking, operating systems, cyber security, and programming languages.

MAJOR FIELD

CNET-137	Introduction to SQL	4
CNET-142	Introduction to Programming with Python	4
CNET-146	Introduction to UNIX/Linux	3
CNET-155A	Introduction to Networks (CCNA1)	3
CNET-162	Windows Server Installation and Configuration Administration	2
CNET-170	Network Security (Security+)	<u>4</u>
		20

ELECTIVE COURSES

Courses cannot be counted more than once to apply towards both Elective Courses and Supporting Courses.

Complete a minimum of six units from the following courses:

CNET-105	IT Essentials (CompTIA A+)	4
CNET-108	IT Project Management	3
CNET-135	Oracle Database Administration	2
CNET-155B	Routing and Switching Essentials (CCNA2)	3
CNET-172	CCNA Security	3
CNET-173	Ethical Hacking	3
CNET-174	Computer Forensics	3
CNET-175	Cloud Security Fundamentals	<u>4</u>
		6-9

SUPPORTING COURSES

Courses cannot be counted more than once to apply towards both Elective Courses and Supporting Courses.

Complete a minimum of nine units from the following courses:

CNET-103	Introduction to Business Intelligence	4
CNET-105	IT Essentials (CompTIA A+)	4
CNET-108	IT Project Management	3
CNET-120	VMware: Install, Configure, Manage	2
CNET-122A	Information Storage and Management – EMC	2
CNET-122B	Cloud Infrastructure and Services	2
CNET-132	Introduction to Data Analytics	2
CNET-135	Oracle Database Administration	2
CNET-172	CCNA Security	<u>3</u>
		9-12

Total Required Units: 35-41