**ASSOCIATE OF SCIENCE**

**Program Outcomes:** Upon successful completion of this program a student will be able to:
- design, plan, and implement a small office network, incorporating current industry standards for performance, reliability, and security.
- accurately communicate their work in a technical and non-technical context.
- assemble and configure a computer, install operating systems and software, and troubleshoot hardware, software and networking problems.
- configure business and enterprise networking, storage and virtual equipment (servers and network devices), to create a reliable, secure, and efficient networking infrastructure.

**Required Major Courses (40 units)**

- CSS-1 – Introduction to Computer Science & Programming Fundamentals 4.0
- CSS-120A – Introduction to Networks 4.0
- CSS-120B – Routing and Switching Essentials 4.0
- CSS-120C – Scaling Networks 4.0
- CSS-120D – Connecting Networks 4.0
- CSS-122 – Computer Security Principles 4.0
- CSS-123 – Network Security Principles 4.0
- CSS-124 – Systems and Network Administration 4.0
- CSS-125 – Storage Management and Virtualization 4.0
- CSS-169 – Computer Maintenance and Repair 4.0

**SUBTOTAL: 40 UNITS**

**General Education – Required Courses**

*Students must complete one of the following General Education Plans:*

- **HCCD GE** (see page 66)  MAT-123 or higher
  - Natural Sciences
  - Social & Behavioral Sciences
  - Humanities
  - Ethnic Groups in the US
  - Language and Rationality

**SUBTOTAL: 21 UNITS**

*Students can double-count required courses and courses for General Education*

- **Electives (Courses Numbered 1-199)** required when degree units plus GE units total fewer than 60.

**TOTAL: 61 UNITS**