COMPUTER SCIENCE AND INFORMATION SYSTEMS
NETWORK AND SECURITY OPTION (AS.PCN)

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