

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

CERTIFICATE OF ACHIEVEMENT

Program Outcomes: Upon successful completion of this program a student will be able to:

- accurately communicate their work in a technical and non-technical context.
- design and construct significant computer application(s) using current programming languages, computer architectures, and operating systems.
- describe the organization and operation of a computer architecture with respect to numerical representation and computations, digital logic, and computer components.
- demonstrate the ability to evaluate algorithms, select from a range of possible options, provide justification for that selection, and implement the algorithm in a programming context.

Required Major Courses (40 units)

- | | |
|---|-----|
| <input type="checkbox"/> CSS-1 – Introduction to Computer Science and Programming | 4.0 |
| OR | |
| <input type="checkbox"/> CSS-44 – Computer Science and Information Systems | 4.0 |
| <input type="checkbox"/> CSS-120A – Introduction to Networks | 4.0 |
| <input type="checkbox"/> CSS-120B – Routing and Switching Networks | 4.0 |
| <input type="checkbox"/> CSS-120C – Scaling Networks | 4.0 |
| <input type="checkbox"/> CSS-120D – Connecting Networks | 4.0 |
| <input type="checkbox"/> CSS-122 – Computer Security Principles | 4.0 |
| <input type="checkbox"/> CSS-123 – Network Security Principles | 4.0 |
| <input type="checkbox"/> CSS-124 – Systems and Network Administration | 4.0 |
| <input type="checkbox"/> CSS-125 – Storage Management and Virtualization | 4.0 |
| <input type="checkbox"/> CSS-169 – Computer Maintenance and Repair | 4.0 |

Other Required Courses

- | | |
|--|-----|
| <input type="checkbox"/> ENG-101* – Intermediate Composition and Reading | 3.0 |
| OR | |
| <input type="checkbox"/> ESL-101* – Academic Writing & Reading II | 5.0 |
| <input type="checkbox"/> MAT-123** – Intermediate Algebra | 5.0 |

TOTAL: 40 UNITS

*Eligibility for ENG-1A or ENG-1AX fulfills this requirement.

**Completion of MAT-123 or any higher level math class fulfills this requirement.

GAINFUL EMPLOYMENT INFORMATION:

See the certificate program cost and the employment outlook for graduates by clicking the link below:

<http://www.hartnell.edu/gainful-employment-certificate-programs-0>

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>