

Regional College-Career Pathway: Information Technology



ORIENTATION / INTRODUCTION Grades 9-10

SKILL DEVELOPMENT Grades 10-12

CAPSTONE / ADVANCED Grades 12

Computer Applications
or
CIS 110 Introduction to Computers

AP Computer Science Principles

AP Computer Science A

CIS 105 Introduction to Computer Programming

IT Course (i.e. MobileMaker)

CIS 121 Computer Science I

&

CIS 127 Discrete Structures

CIS 230 Computer Hardware & Troubleshooting
&

CIS 231 Introduction to Windows OS
Completion of both courses leads to CompTIA A+ Certification

CIS 252 Network Fundamentals (CompTIA Network + Exam Certification)



Courses and Work-Based Learning Address the PWR Act Recommended Technical and Essential Employability Competencies

CAREER FOCUSED COURSES

Programming
Engineering Focus

WORK-BASED LEARNING

Career Exploration
Team-Based Challenge

Team-Based Challenge
Career Development Experience
or
Youth Apprenticeship

SCIENCE

Science Sequence

Science Sequence

AP Biology

or

BIO 108 Biology for Contemporary Society

SOCIAL SCIENCE

Social Science Sequence

Social Science Sequence

Social Science Sequence

MATH

Algebra
or
Geometry

Geometry
or
Algebra 2
or
Precalculus

Transition to College: Algebra
or
AP Calculus

or

MTH 112 College Algebra

or

MTH 190 Calculus with Analytical Geometry I

ENGLISH

English Sequence

English Sequence

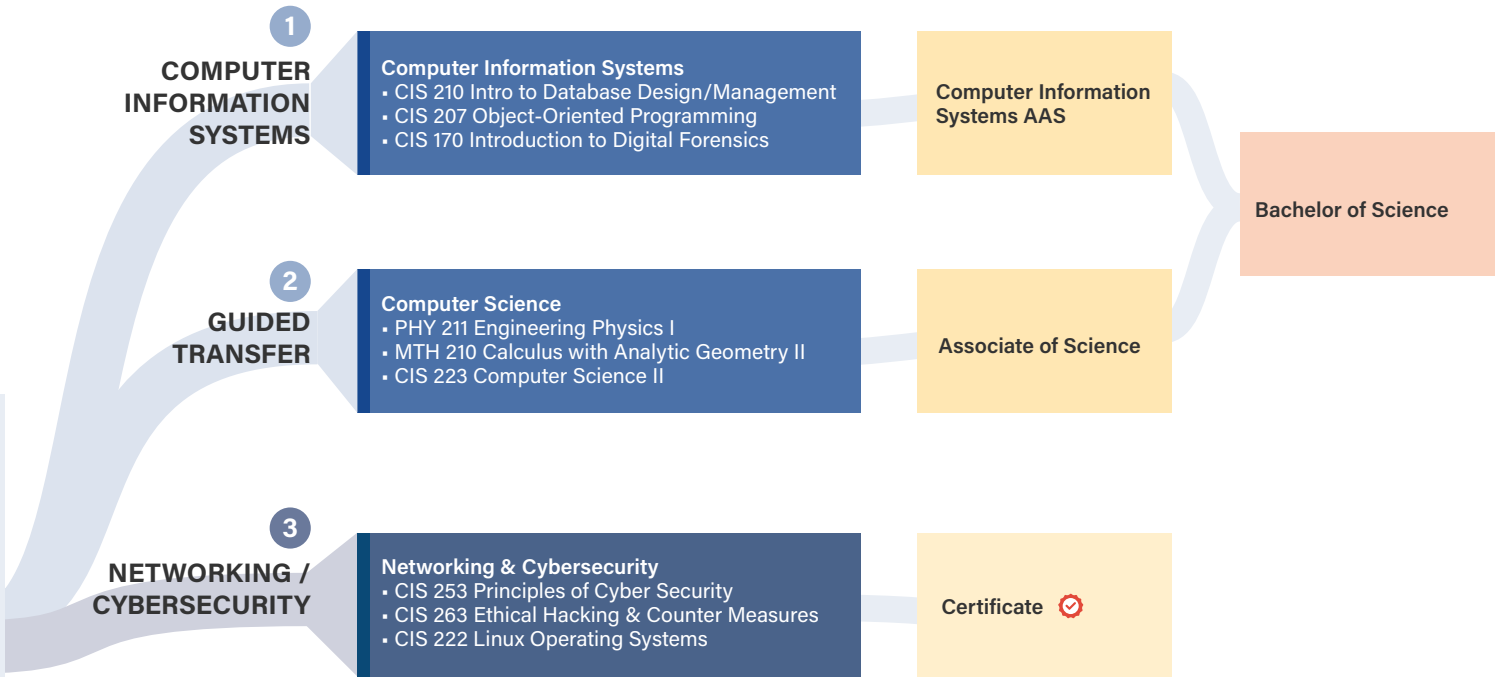
AP Language & Composition

or

ENG 101 English Composition I

& ENG 102 English Composition II

POSTSECONDARY OPTIONS



SELECTED OCCUPATIONS, WAGES, & JOB GROWTH

| Program | Typical Job | Near or Above Living Wage Threshold for 1 Adult + 1 Child ¹ | Median Hourly Wage ² | Growth in Illinois: Annual Job Openings ² | Growth in Illinois: % Change Over 10 years ² | Stackable? |
|------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------|
| Computer Information Systems AAS | Computer Systems Analysts | Y | \$42.13 | 2,230 | 9% | Typically Stacks to Bachelor's Program |
| | Computer User Support Specialists | Y | \$26.27 | 2,220 | 11% | |
| Guided Transfer Computer Science | Computer and Information Systems Managers | Y | \$69.43 | 1,370 | 10% | |
| | Computer Hardware Engineers | Y | \$48.49 | 110 | 12% | |
| | Software Developers - Applications | Y | \$49.47 | 2,690 | 28% | |
| | Software Developers - Systems Software | Y | \$49.17 | 1,030 | 13% | |
| | Computer and Information Research Scientists | Y | \$58.35 | 90 | 21% | |
| Networking / Cybersecurity Certification | Computer Network Support Specialists | Y | \$29.46 | 840 | 8% | |

1. Living wage calculations are based on MIT's Living Calculator (<https://livingwage.mit.edu/>), where the "Living Wage" for 1 Adult + 1 Child is \$26.27/hour for the state of Illinois. "Near" defined as 85% of the statewide living wage, which is \$22.33/hour

2. For Chicago-Naperville-Elgin MSA. U.S. Department of Labor, CareerOnestop: <https://www.careeronestop.org/ExploreCareers/explore-careers.aspx>

- AP or Dual Credit
- Dual Credit Course
- College and Career Pathway Endorsement Earned
- Course / Program Prepares for Industry Credential

