



## Information Technology, networking & emerging trends

**Program Description:** The ITnet program utilizes the Cisco Networking Academy curriculum to prepare students for exciting careers in Information Technology, commonly referred to as IT. Students will have access to expert, educational IT content and to a rich learning experience through online media. Engaging activities include animated simulations, videos, and interactive quizzes, along with valuable hands-on lab exercises for real world experience. Students in ITnet receive exposure to many different career areas including:

### COMPUTER REPAIR

**IT Essentials:** The Cisco Networking Academy's IT Essentials course gives students basic computer repair knowledge and skills, which prepares them for the CompTIA A+ industry certification and entry-level computer support careers.

### NETWORKING

**CCNA v7:** To prepare students for entry-level networking careers, we utilize the Cisco Networking Academy Introduction to Networks course. This course gives students a basic understanding of how networks operate and how to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement Internet Protocol (IP).

### PROGRAMMING

**Code.org AP Computer Science Principles:** This course introduces students to the fundamental concepts of computer science.

**Python and C++:** Students will learn the fundamentals of coding, using the Python and C++ programming languages. This gives them a start towards entry-level programming careers.

**IoT Fundamentals:** The Cisco Networking Academy Connecting Things course focuses on identifying, designing, prototyping, and presenting an IoT solution that securely solves a current business or social problem.

### CYBERSECURITY

**CCNA Cybersecurity Operations:** This course provides an introduction to the knowledge and skills needed for a Security Analyst working with a Security Operations Center team. It includes core security skills for monitoring, detecting, investigating, analyzing and responding to security events, thus protecting systems and organizations from cybersecurity risks, threats, and vulnerabilities.

### Related Professions

- Computer Support Specialist
- Network and Computer Systems Administrator
- Computer Systems Analyst
- Information Security Analyst
- Computer Network Architect
- Computer Programmer
- Software Developer

## Lapeer County Education and Technology Center

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Attica, MI 48412

(810) 664-1124

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### Articulations:

#### Baker College:

(up to 22 credits)

#### Davenport University

(up to 42 credits)

#### Delta College:

(up to 9 credits)

#### Mott Community College:

(up to 6 credits)

### Possible Certifications:

CompTIA A+

Cisco CCNA

Microsoft MOS

Microsoft MTA

### Program Success Indicators

#### Academic

- Be able to listen, read, and follow verbal and written directions/instructions
- 11th grade reading and writing level
- Be able to add, subtract, multiply, and divide whole numbers
- Enjoy working with numbers
- Pre-Algebra math level
- Demonstrate workplace literacy skills
- Logical reasoning, critical thinking, problem solving, and decision making

#### Interpersonal

- Demonstrate a good work ethic
- Good attendance
- Able to work independently and with others as a member of a team
- Be productive each day
- Demonstrate dependability, responsibility, honesty, integrity, and courtesy
- Be able to complete assigned work in a timely manner

#### Program specific

- Interest in Computers
- Keyboarding skills
- Enjoy hands-on inside, organized, structured work environment

### Kelly Ross, Instructor

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