TECHNOLOGY & ENGINEERING EDUCATION COURSE PATHWAYS

Grade 9 — **Grades 10-11** — **Grades 11-12**

PLTW (Project Lead The Way)

*Design & Drawing for Production

*Civil Engineering & Architecture

*Computer Integrated Manufacturing

*Principles of Engineering

IB Design Technology

Academy of Information Technology

Principles of Information Technology

+Introduction to Computer Programming

+#Introduction to CyberSecurity

AP Computer Science A

+Digital Networks/CISCO Discovery

#SUPA Web Architecture

Web Page Design and/or Video I

Electives: may be taken at anytime throughout high school with no prerequisites

*Digital Electronics
Robotics
Small Engines
Car Care I/II
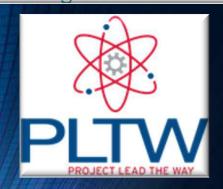**Transportation Systems**
Woodworking Technology

Furniture Making
Advanced Technology Studies

PLTW Design and Drawing for Production meets the Arts 1 credit requirement for graduation.

*3 credits from *Rochester Institute of Technology*, +3 credits from *SUNY Farmingdale*, #3credits from *Syracuse University* Project Advance

STEM Pathways at Northport High School

Foundations

- Algebra I, Geometry, Algebra II & Pre-Calculus *
- Earth Science, Living Environment, Chemistry & Physics – Regents & Honors

Mathematics

- IB Mathematics
- AP Calculus AB & BC
- College Calculus *
- AP Statistics

Science & Research

- IB/AP Biology, Chemistry & Physics
- AP Environmental Science
- Medical Anatomy & Physiology *
- Science Research
- Forensic *, Marine Science & Astronomy

Information Technology

- Principles of Information Technology
- Introduction to Computer Programming
- Digital Networks/CISCO Discovery *
- AP Computer Science A
- Introduction to Cybersecurity *
- Webpage Design
- Video/Digital Film Production
- AOIT Internship

Engineering

- PLTW Design & Drawing for Production *
- PLTW Civil Engineering & Architecture *
- PLTW Principles of Engineering *
- PLTW Digital Electronics *
- PLTW Computer Integrated Manufacturing *#
- IB Design Technology
- PA Web Architecture*
- Robotics

*Dual enrollment courses
#2018-2019 First Year