



New Visions: Applied Engineering

1-Year Program

Plattsburgh Learning Hub

Mineville Campus

The New Visions: Applied Engineering Program is an application based, rigorous one-year exploratory program for select college-bound seniors planning to major in a field of study in Engineering and/or related fields. The academic curriculum is combined with practical, applied work experience as students engage in STEM concepts at the Institute of Advanced Manufacturing (IAM) and through clinical observations with business & industry partners in the field. The program incorporates dual enrollment in college and high school credit-bearing coursework with career exploration and Work-Based Learning (WBL) experiences in Applied Engineering.

Students will participate in daily ½ day sessions for the course of the school year during the Senior Year. The purpose of this program is to increase student success with determining a college major and career pathway in the field of Engineering and/or related fields.



New Visions: Applied Engineering is for high school seniors only.

Program Highlights

- Immersive educational experience for students interested in pursuing a career in engineering
- Daily ½ day sessions
- Practical and applied work experience academic curriculum
- College-like atmosphere
- Dual enrollment in college and high school credit-bearing coursework

Career Connections

- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering
- Structural Engineering
- Architecture
- Quality Control & Process
- Additional Engineering related areas

Articulation Agreements

- Clinton Community College
- North Country Community College

Certifications

- NWRC/21st Century Skills

Course of Study

FIRST SEMESTER

CCC CAP Credit/ NCCC Bridge

Dual Credit

- MAT 204 Pre-Calculus (4)
- PHY100 Physics
- CSC 102 Microcomputer Applications or
- CIS 130 Productivity in Computing
- MEC 100 Intro to Engineering Technology
- MEC 101 Technical Drawing (CAD)
- MEC 201 Solid Modeling & Animation/ 3D Studio
- MEC 212 Computer Aided Manufacturing (CAM)

High School Credit

- Technology Elective (1.0)
- English (0.5)
- Math (1.0)
- Science (.5)

SECOND SEMESTER

CCC CAP Credit/ NCCC Bridge

Dual Credit

- MAT 224 Calculus (4)
- PHY 100 Physics (4)
- CSC 102 Microcomputer Applications (3) or
- CIS 130 Productivity in Computing (3)
- MEC 100 Intro to Engineering Technology (3)
- MEC 101 Technical Drawing (CAD) (3)
- MEC 201 Solid Modeling & Animation/ 3D Studio (3)
- MEC 212 Computer Aided Manufacturing (CAM) (3)

High School Credit

- CTE (0.5)
- English (0.5)
- Math (1.0)
- Science (.5)

TOTAL CREDITS

HS Credits	5.5	College Credits	27
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New Visions: Applied Engineering has a selective admission process.

Applications are required and available on our website and through your school guidance offices.



Placement tests (CCC) will be conducted at component districts in conjunction with regularly scheduled College Advancement Program (CAP) or Bridge placement testing at the school.