

ONONDAGA-CORTLAND-MADISON BOCES

Career & Technical Education

NEW VISION ENGINEERING PROFESSIONS PROGRAM

@ Lockheed Martin



PROGRAM OVERVIEW

New Vision Engineering Professions is a one-year exciting and rigorous experiential college preparatory program designed for highly motivated high school seniors who want to explore a future in engineering. The program's holistic approach to education integrates Engineering, English, Participation in Government, and Economics high school credits into one active learning participatory experience. The program also includes six possible English college credits from Onondaga Community College. All classes are held in a New Visions Engineering classroom located at Lockheed Martin in Syracuse. As part of the program, students work with engineers at Lockheed Martin in several engineering discipline rotations, including mechanical, electrical, systems, and software. Students extend their classroom learning as they engage in real-world learning in an industry setting and study the fundamentals of engineering as they work side-by-side with engineers on projects in advanced technologies.

New Vision students complete an application and interview process in collaboration with their home district that includes transcripts, an essay, and letters of recommendation. Students spend on average 2.5 days in the classroom for high school credit, 1.5 days a week working with Lockheed Martin engineers, and 1 day in college English courses per week. The goal of the program is to develop students' interpersonal and technical skills; provide a deep understanding of the design process; and prepare students for success in an engineering college and beyond. In the classroom, students get a broad overview of engineering concepts and disciplines, including mechanical, electrical, environmental, aerospace, bioengineering, chemical, industrial, computer engineering and computer science.

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LOCKHEED MARTIN



TOPICS & EXPERIENTIAL LEARNING OPPORTUNITIES

- Math & Science Engineering
- Engineering Design
- Systems Engineering
- Technical Writing
- Computer Science & Software Engineering
- Project Management
- Manufacturing Engineering
- Materials & Fabrications
- Mechanical Engineering
- Electrical Engineering
- Aerospace Engineering

AVAILABLE ACADEMIC CREDITS

High School Credits

- 3 Engineering Careers
- 1 English 12
- ½ Participation in Government
- ½ Economics
- 3 English

Onondaga Community College Credits

- 3 English 103, Freshman Composition
(College Credits through Onondaga Community College)
- 3 English 259, Technical Writing
(College Credits through Onondaga Community College)

In addition to students attending four-year colleges and universities upon completion of this program, students also have the opportunity to enroll in a "two plus two" program at Onondaga Community College at a more affordable price. In this "two plus two" program, students would attend OCC for two years, then transfer to the Rochester Institute of Technology or Clarkson University for the remaining two years.

FOR MORE INFORMATION

For more information about the New Vision Engineering Professions program, see your high school counselor or call our OCM BOCES school counselors at 315-433-2234.

