

NEW VISION ENGINEERING PROFESSIONS

New Vision Engineering Professions is a one-year program designed for highly motivated high school seniors. As an engineering immersion program, students will explore numerous career pathways as they engage in real-world learning within an industry setting. Located at Lockheed Martin in Syracuse, students will study the fundamentals of engineering and extend their learning as they work side-by-side with engineers on contracted projects in aerospace, defense, security, and advanced technologies. Upon completion, students will possess a deep understanding of the engineering profession and the design process, and be able to apply engineering tools, technologies and techniques that are necessary to solve problems and demonstrate innovation.



TOPICS & EXPERIENTIAL LEARNING OPPORTUNITIES

- Introduction to Technology & Engineering
- Math & Science Engineering
- Engineering Design Process & Agile Development
- Systems Engineering, Integration, & Test Management
- Designing, Modeling, Drafting, & Testing for Manufacturability and Producibility
- Measurement Tools & Techniques
- Automation and Data Analytics
- Technical Writing
- Computer Science & Software Engineering
- The Engineering Team
- Project Management
- Manufacturing Engineering
- Materials & Fabrications
- Mechanical Engineering
- Electrical Engineering
- Aerospace Engineering
- Sustainment & Logistics

AVAILABLE ACADEMIC CREDITS

- 3 Engineering Careers
- 1 English 12
- ½ Participation in Government
- ½ Economics
- 3 English 103, Freshman Composition College Credits through Onondaga Community College



- 3 English 259, Technical Writing College Credits through Onondaga Community College

LOCKHEED MARTIN

FOR MORE INFORMATION

For more information about the New Vision Engineering Professions program, see your high school guidance counselor or call our OCM BOCES guidance counselor at our Thompson Road Campus, 6820 Thompson Road, Syracuse (315) 433-2635.