

Project Lead the Way

Project Lead The Way (PLTW) is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs used in middle and high schools across the U.S.

STEM education is at the heart of today's high-tech, high-skill global economy. For America to remain economically competitive, our next generation of leaders -- the students of today -- must develop the critical-reasoning and problem-solving skills that will help make them the most productive in the world.

STEM education programs like the one offered by PLTW engage students in activities, projects, and problem-based (APPB) learning, which provides hands-on classroom experiences. Students create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. They're also exposed to STEM fields through professionals from local industries who supplement the real-world aspect of the curriculum through mentorships and workplace experiences.

For more information please visit our website at www.northernnecktech.org

Engineering and Technology

Current courses are available in Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture and Engineering Design and Development.

Students enrolled in these courses will be introduced to the career choices in the engineering and technology areas and prepare for postsecondary education in one of the engineering and technology fields.



Students who take the third and fourth courses will attend the NNTC in the pm timeframe. These students will also participate in the robotics class and participate in the FIRST robotics competitions.



FIRST® Robotics Competition

Northern Neck Technical Center Governor's STEM Academy for Agriculture and Maritime Studies

Engineering



Northern Neck Technical Center Governor's STEM Academy

(804) 333-4940

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Warsaw, VA 22572

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Dual Enrollment Credits

Students will earn 3 college credits for the Introduction to Engineering and Design course. They will earn 2 college credits from the Principles of Engineering, Civil Engineering & Architecture, and Engineering Design and Development courses.



How will a student benefit from being a part of the academy?

- Receive dual high school and college credits.
- Participate in hands-on problem solving activities and project based learning experiences.
- Receive meaningful, real world instruction that will prepare you for high wage/high skill careers in the engineering field.

Admission Procedures

To be considered for admission in the NNTC STEM Academy the student must meet the following

Requirements:

- Complete RCC dual credit application.
- Pass MTE 1-5 and place into ENF 2 (for all classes)
- Passed Algebra I with a C or higher
- Passing scores on the latest English and Mathematics Standard of Learning Test
- Successfully complete the necessary dual credit placement tests.



For more information contact your schools guidance department or the Northern Neck Technical Center at (804) 333-4940.

Governor's STEM Academy Engineering Course Sequence

First Course

Introduction to Engineering and Design

Second Course

Principles of Engineering

Third Course

Civil Engineering & Architecture

Fourth Course

Engineering Design and Development

Fifth Course

Robotics

The first two courses are offered at the students home school while the third, fourth, and fifth courses are offered at the Northern Neck Technical Center in one year during the pm timeframe.

