



- #1 Knoxville, TN Metro Area
- #1 Knox County High Schools
- #1 Knox County Avg. ACT Score

• DUAL ENROLLMENT OPPORTUNITIES



ONGOING PARTNERSHIPS:



L&N STEM HABITS

CRITICAL THINKING



PROFESSIONALISM



COLLABORATION



INNOVATION



INQUIRY



DESIGN



CONTACT US

401 HENLEY ST. KNOXVILLE, TN 37902

865-329-8440

@LNSTEMAC

KNOXSCHOOLS.ORG/LANDN

L&N STEM ACADEMY

Cultivating the Next Generation Of Thinkers and Problem Solvers



OUR MISSION

The world needs problem solvers. Our belief is that we are tasked to supply the world with these problem solvers with a STEM education through the practice of the Design Thinking process and a foundation in our STEM Habits of Professionalism, Critical Thinking, Collaboration, Innovation, Inquiry, and Design.

CULTURE OF LEARNING

The L&N STEM Academy offers a robust set of courses including 29 AP offerings as well as a complete set of rigorous Pre-AP courses all students take in Math, English, Science, Social Sciences, and the Arts. Student performance on national assessments earned the L&N status as one of *U.S. News & World Report's Top High Schools* over the last six years as well as a spot in *Newsweek's top 500 schools for Minority Achievement*. As Knox County School's first stand-alone magnet school, all students have made the decision to leave their zoned schools to be a part of the L&N experience. This phenomenon provides a culture with a focus on learning by all students and faculty members.

UNIQUE CURRICULUM & OPPORTUNITIES

In addition to Tennessee State and Knox County Schools requirements, all L&N STEM Academy students experience a rigorous curriculum where content integration and STEM Habits are emphasized to promote readiness for learning at any post-secondary level. All students are required to enroll in Computer Science Foundations and STEM 1 their freshman year.

DESIGN THINKING PROCESS

Students are trained Stanford's design thinking process (d.school). This process helps work through problem solving to come to solutions centered around empathizing with stakeholders to design innovative ideas. All students will be well versed in this throughout their 4 years as this is the cornerstone of our school's learning process.

Steps of the d.school process:

Empathize - Define - Ideate - Prototype - Test



EXTRACURRICULAR ACTIVITIES

We field five TSSAA-sanctioned sports:

- Bowling
- Cross-Country
- Tennis
- Golf
- Track and field

In addition, there are also competitive club teams in Swimming & Diving, Rowing, and Ultimate Frisbee. All activities are generated from student interest.

Partial list of non-sport activities:

- FIRST Robotics
- Key Club
- Model United Nations
- Mock Trial
- Mu Alpha Theta
- National Honor Society
- Student Government Association
- Computer Science Honor Society
- CyberPatriots
- Technology Student Association

IDEA FACTORY

All students have access to our state-of-the-art fabrication and collaboration lab known as the Idea Factory. Whether investigating a new idea or exploring new tools and technology, students can think critically and innovate at the Idea Factory.



PATHWAYS & PORTFOLIO

After 9th grade, students will select one of four unique paths (referred to as 'schools') to pursue throughout the rest of their high school career. Though students can take any number of elective course offerings, we focus on these four pathways to give students a streamlined focus in their field of interest. Students will choose from being a part of one of these four schools:

- School of Computational Science & Cybersecurity
- School of Physics, Mechanics, & Engineering
- School of Advanced Inquiry & Research
- School of Design Thinking

Students will work with a school counselor and teachers to decide a pathway based on their interests, and will build their portfolio that is compiled throughout their entire career at L&N. A few of the requirements for the portfolio include:

- Comprehensive Learning
- Experiential Learning
- Ownership of Learning
- Self Reflection
- Community Service
- Research & Presentation

