



STUDENT EDUCATION

CREATING A PATHWAY FOR LIFELONG LEARNING

We are a leader in developing efficient, resilient building solutions that make indoor environments better. And when it comes to schools, Trane helps address the most important asset in your building: students.

Trane's Education Programs, At A Glance

Trane's education programs can help you leverage your own building as a learning tool to engage students in STEM learning, teach energy efficiency, and provide opportunities for industry-recognized certifications. Explore each program below.

BTU Crew™

STEM (science, technology, engineering and math) can be accessible and fun for any-and-all young learners. With grade 4+ and 8+ versions, each learning experience around energy efficiency comes with the right tools for developing analytical skills. Teachers will appreciate how easy it is to integrate into their already-planned lessons, too.

NC3 - *National Coalition of Certification Centers*

In partnership with the nonprofit NC3, we help pave the way to career opportunities for students. Industry-recognized certifications help a student demonstrate their knowledge as they build toward their career.

A Pathway To Lifelong Learning

From elementary schools to college campuses, our programs are designed to help students at each learning level. Follow along below to see how Trane is building a pathway to future careers and inspiring a generation of lifelong learners.



Trane's Educational Lifecycle

Elementary Schools & Middle Schools

Engaging STEM Learning & Career Awareness for young students

The STEM experience is an important element to student academic development and life-long career opportunities. Making it enjoyable for students and easy to use for teachers is essential.

BTU Crew™ (Grades 4-7)



Program Details

Our BTU Crew beginners program uses hands-on STEM lessons to teach energy efficiency in the classroom and broader community and expose students to future energy-related careers.



Teaching Pillars

- Energy Basics
- Energy Usage
- Career Awareness
- Impact of Energy
- Energy Usage in Buildings
- Energy Audit and Performance Analytics



Lesson Plan

- Up to 20 lessons
- 50-60 minutes long
- Easily integrates with existing lessons

Key Benefits

Students

- Generate interest in STEM
- Develop important life skills
- Learn concepts of energy efficiency

Teachers & Staff

- Lesson plans integrate easily with current learning
- Digital tools make learning more effective
- Well-rounded, immersive learning experience

Middle Schools & High Schools

Technical Education & Career Exploration for early High School students

Now that students have a basis in STEM, it's time to continue to nurture and develop it. To get them more interested and invested in energy, energy consumption, related careers and how it all ties into the environment. So they're equal-parts informed and inspired to continue to develop and apply their skills.

BTU Crew™ (Grades 9-10)



Program Details

Studies show that nearly 50% of students lose interest in science by the 8th grade. This version of BTU Crew™ makes STEM learning more tangible through technical education and career exploration.



Teaching Pillars

- Energy 101
- Energy Usage
- Career Exploration
- Impact of Energy
- Energy Usage in Buildings
- Energy Audit and Performance Analytics



Lesson Plan

- Up to 32 modules
- 50-60 minutes each
- Easily integrates with existing lessons
- Includes optional final student project

Key Benefits

Students

- Advanced STEM learning
- Build technical & analytical skills
- Career exploration and experience

Teachers & Staff

- Lesson plans integrate easily with current learning
- Digital tools make learning more efficient
- Well-rounded, immersive learning experience

High Schools, Colleges, and Beyond

Preparing job-ready professionals for high-demand careers

At this point students are ready for even more hands-on opportunities. With this highly-specialized training, they can seamlessly and readily move into the next phase of their life in a tech-adjacent field.

NC3 (Grades 11-12)



Program Details

Through our partnership with the nonprofit National Coalition of Certification Centers (NC3), we help prepare high school graduates for energy-related careers through advanced technical education and industry certification programs.



Certifications

- Data Analytics Certifications
- Building Automation Certifications
- Residential HVAC Certifications



Course Options

- Concurrent Credits
- Stackable Certifications

VL3 - Virtual Living Learning Lab

How It Works

Trane uses state-of-the-art technology to create a digital twin of your building data. The result is a virtual living learning lab that allows students to analyze complex problems and real-world scenarios, without disturbing your hardware.

Focus Areas

- BIMS, Energy, Water/Wastewater & Solar Systems
- Data Analytics Monitoring
- Third-party IoT
- Open protocol / BACnet Systems
- Lighting & IoT Systems

Skills & Certifications

- BIMS, Energy, Water & Solar Systems
- BAS & Residential Equipment Certificates
- BIMS, Energy, Water & Solar Systems
- Data Analytics Certificates
- Dual-Credit Opportunities
- Capstone Projects Available

Key Benefits

Students

- High school diploma credits
- Stackable credits for future certifications
- Industry-recognized certifications for high-demand careers

Teachers & Staff

- Advanced learning environment
- Quickly identify savings opportunities
- State-of-the-art education & facilities