

Academy of Engineering

Curricula & Content

NAF's engineering academies utilize curricula from free and pay-for organizations like Project Lead the Way and Intelitek. Additional engineering courses, resources, and projects from NAF partners are available on learning.naf.org.

Curricula or content with a cost are marked with a , and those requiring professional development with a .



learn more at NAF.ORG

Curricula & Projects

NAF AI Career Connections

<https://ash.naf.org/public/learning/course/ai-career-connections>

- Free AI fundamentals unit
- Builds academic and professional skills
- No AI experience needed for educators
- Integrates easily into existing curriculum
- Applies to all pathways

Project Lead the Way

<https://www.pltw.org/our-programs>

Offers a 3-4-year curriculum encompassing 2 foundational engineering courses and 7 specializations to customize programs of study.

See how **NAF + PLTW is a recipe for educator engagement and powerful student learning**.

e4usa

<https://e4usa.org/curriculum>

Courses empower students to build on what they know, discover their passions, and confidently shape the world.

Intelitek

<https://intelitek.com/stem-education/>

Provides an easy-to-implement solution for delivering early engagement and discovery of STEM topics for high school students.

NAF Expeditions

<https://ash.naf.org/public/learning/projects/engineering>

Free, career-connected projects combining hands-on learning with career exploration in fields like Computer Vision, Aerospace, Eco-tech, and more!

Resources

California Educators Together - Free engineering and design courses for students exploring careers in visual communications; free account required.

Teach Engineering – Free content intended to increase participation in STEM fields.

Siemens Pathway to Learning Engineering – Free curriculum, design software, the portal and online academy.

Paxton Patterson: Intro to Engineering and Construction Career Labs – Offers a capstone program that provides real-world experience of working in an engineering consulting firm. 

FIRST Robotics – A global robotics community where **NAF teams** prepare for the future. 

Future City High School – Engages students in imagining, researching, designing, and building cities of the future. 

