

# Knowledge Always Transfers



Can you learn more than drafting from a drafting class? Chad Campbell says so. “On the surface, basic technical drawing gave me an edge in engineering school. But later, in the business world, I learned that communicating ideas efficiently is invaluable. My basic technical drawing classes taught me how to simplify complex physical concepts and to present them in a manner comprehensible without a slide rule or pocket protector.”

Those same classes also helped fuel Chad’s interest in engineering. From his studies in technology education at Langley High School, Chad proceeded on to the Georgia Institute of Technology for an engineering degree, and then earned an MBA at the University of Maryland.

Today, Chad applies the knowledge gained from his broad educational background as project manager at a Washington-based energy and environmental consulting firm.

## **CHAD CAMPBELL** Project Manager

**High School:** Langley High School

**CTE Program Studied:** Basic Technical Drawing

**Additional Studies/Training:** Georgia Institute of Technology (B.S. Industrial & Systems Engineering), Robert H. Smith School of Business, University of Maryland (M.B.A. Finance/Entrepreneurship)

## Engineer

The field of engineering is extraordinarily broad. Engineers may pursue such diverse specialties as chemical, electrical, industrial, and mechanical engineering—each with its own distinct requirements. People working as engineers tend to possess analytical minds and an appreciation of mathematics and technology.

## Electives to take in high school

- Technical/Engineering Drawing
- Pre-Engineering
- Engineering Physics
- Engineering Systems I & II
- Research & Development Engineering
- Physics of Technology

## What to study after high school

Entry-level engineering jobs require a bachelor’s degree in engineering, and graduate degrees are often necessary for advancement. (Engineers who provide engineering services to the public must also be licensed.) High school students may get a head start on engineering careers through Tech Prep programs and internships, and Virginia’s community colleges offer many relevant courses that can transfer to four-year engineering degree programs.