

2017 SUMMER SEEK EDUCATIONAL EXPERIENCE at KENT

- Hands-on learning
- Problem solving
- Innovative thinking

These are just some of the invaluable skills students gain from SEEK, an extension of Kent School's Pre-Engineering and Applied Sciences curriculum.

All programs held at Kent School
1 Macedonia Rd Kent, CT 06757
<http://www.kent-school.edu/academics/seek>

June 5-9 or June 5-16

Pre-Engineering

with Kent School & U Conn

July 9-14

June 5-9

Entrepreneurship

with Wharton Business School, U Penn

June 5-10

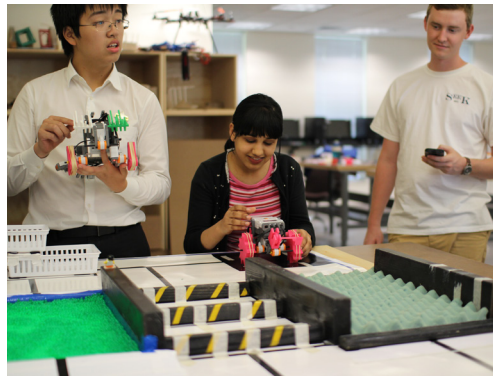
Aviation

with Georgia Tech & FlightSafety International

June 11-23

Manufacturing

with Georgia Tech



SEEK Aviation

Participants learn the science and skills needed to pursue careers in the booming Aviation and Aeronautics industries through a program supervised by Mr. Gar Flickinger, Kent Class of 91, a professional pilot with UPS. The session also includes hands-on activities, field trips and flying a Cirrus SR20 aircraft.

The agenda:

Day 1: Aeronautics/Fundamentals of Flight: hands-on flight demonstrations and experimenting with laser cut Styrofoam gliders

Day 2: Aircraft Performance/Weight and Balance, Federal Aviation Regulations (FARs) and Aeronautical Information Manual (AIM)

Days 3&4: Flight simulator practice training; Flight planning/navigation

Day 5: Aviation meteorology/interpreting weather data with Nick Gregory, who is the Performance Flight Chief Pilot and Chief Meteorologist at WNYW Fox 5 in New York. Participants will take the controls and fly a Cirrus SR20, equipped with CAPS: Cirrus Airframe Parachute System. The flight will last for approximately one hour.

Day 6: Trip to FlightSafety International at the Teterboro Learning Center to use the Full Motion Dassault Falcon Jet Simulator.

-> For more information, contact Dr. Ben Nadire at seek@kent-school.edu or 860-927-6334

-> Open to students entering 8th grade and those in 9-12th grade

SEEK Pre-Engineering

Students participate in hands-on learning, public speaking and creative problem solving in Manufacturing, Engineering Design, Prototyping, Renewable Energy and Robotics. They will learn SolidWorks programming, CNC prototyping, 3D printing and Laser cutting. VEX Robotics and Solar/Wind energy experiments are also incorporated. Both the one-week and the two-week sessions end with a poster session, team presentations and a VEX "In the Zone" Robotics competition. Student teams will also compete in a real-world engineering challenge. The Renewable Energy session focuses on solar cells and circuitry: creating small solar cells; testing the voltage and current generated by solar cells; building circuits using Arduino microprocessors; and creating functional solar powered cars.

SEEK Entrepreneurship

Dr. Keith Weigelt, Professor of Management Strategy at The Wharton School of Business at U. Penn will delve into the creative world of Entrepreneurship and bring an Ivy League business experience to students to explore innovative thinking and to learn financial literacy, critical thinking and communication skills while working in small groups. Centered on interactive exercises and simulations, topics covered will include Business Plan Ideas, Competitive Environments, Sales and Marketing, Pricing Strategies, Operations & Human Resource Management, Budgeting and Accounting.

SEEK Manufacturing

This is a two-week session organized by the Integrated Product Life-cycle Engineering (IPLE) Laboratory at the School of Aerospace Engineering of Georgia Tech. Students learn key principles of Engineering Design and Manufacturing by participating in team-projects, in which they collaboratively redesign components of electro-mechanical systems such as LEGO Mindstorms robots, remote-controlled helicopters and unmanned aerial vehicles (UAVs). Participants will be introduced to key stages of engineering design and manufacturing by exercising the Co-create, Design, Build and Operate (CDBO) approach and will learn Computer-aided Design (CAD) using CATIA V6, print their designs using 3D printers, explore the field of Robotics and learn how to build, redesign and operate ground and aerial robots.

Cost

Aviation: Boarding \$3,000 /Day \$2,200

Other programs: (Financial Aid Available)

One-week session: Boarding \$2,400 /Day \$1,600

Two-week session: Boarding \$3,675 /Day \$2,000

