



# Center for the Enhancement of Engineering Diversity Undergraduate Programs at Virginia Tech

## Living-Learning Community: Hypatia and Galileo



- Living in Hoge Hall as part of the inVenTs community with eight floors of female (Hypatia) and male (Galileo) engineering students.
- Access to a maker space with 3D printers, laser cutter and a wide variety of tools to help with design projects for class and personal projects.
- Access to upper class community members who serve as mentors and committee members to make the first year experience successful and fun.
- Build a community of peers to help with assignments, projects and adjustment to college life and make lifelong friends.
- A seminar featuring early career-focused advice to provide a head start on internship searches and start practicing proven success strategies to help the transition from high school to college.

## Peer Mentoring Programs

- Free mentoring group for every first year engineering student who signs up.
- Access to an upper-class engineering student mentor each week for the first ten weeks of the fall semester.
- Fun meetings to connect with your peers and opportunities to discuss both academic and social issues. Some meetings include a free meal!
- Students may choose from the following mentoring groups: AHORA (Academic Hispanic OutReach Alliance), BEST (Black Engineering Support Teams), GUEST (General Undergraduate Engineering Support Teams), and WEST (Women in Engineering Support Teams).



## Student Transition Engineering Program (STEP)



- STEP is a five-week orientation program for first-year students entering the College of Engineering.
- The goal of STEP is to ease your transition from high school to Virginia Tech and to ensure you know the keys to academic success.
- To provide incoming College of Engineering students an opportunity to become familiar with the Virginia Tech university community prior to the start of their academic career.
- To provide academic enrichment in selected subjects historically difficult for first-year students.
- During the five weeks, you will be provided instruction in chemistry, mathematics, and engineering fundamentals.
- To provide incoming engineering students opportunities for personal and professional development.



# Center for the Enhancement of Engineering Diversity Summer Programs at Virginia Tech



## Imagination

Imagination is a one-week summer camp for middle school students. Targeted at under-represented students, the camp introduces participants to the exciting and fun world of technology, engineering, and science ... not by watching, but by doing! In addition to hands on activities and lab tours, the students complete a weeklong design project led by K-12 teachers who have previously attended training led by Dr. Jim Egenrieder of the Qualcomm Thinkabit Lab at Virginia Tech.

*Rising 7th & 8th Graders*

## BLAST

Building Leaders for Advancing Science and Technology (BLAST) is dynamic three-day residential summer experience for rising 9th and 10th grade students sponsored by the Virginia Space Grant Consortium. BLAST is geared toward students who may have an interest in STEM or an underlying aptitude for STEM academics, but have not yet discovered the excitement of STEM. Through innovative hands-on experiences taught by faculty members and staff, students are able to explore the fun and exciting aspects of STEM while residing on a college campus.

*Rising 9th & 10th Graders*



## Tech Girls

TechGirls is an international summer exchange program coordinated by Legacy International. It is designed to empower and inspire high school girls from the Middle East and North Africa to pursue careers in science and technology. The program runs for three weeks, with the CEED office providing programming for two of these. Participants complete an eight-day computer science course where they create an Android phone application. They are also exposed to various fields of engineering while learning about life at an American University.

*High School Females*

## JROTC STEM Leadership Academy

JROTC STEM Leadership Academy is a weeklong residential camp for high school students who have previously participated in the Army 4th Brigade JROTC program in their high school. The goal of this program is to introduce students to the various fields of science, technology, and engineering and experience a modified military environment so that they can become involved in STEM, ROTC and the Corps of Cadets as collegiate undergrads whether at Virginia Tech or otherwise, leading to careers in STEM. Participants take part in hands on activities, lab tours and complete a design project, culminating in a showcase on the last day.

*High School Students in the Army 4th Brigade JROTC Program*



## C-Tech<sup>2</sup>

Computers and Technology at Virginia Tech (C-Tech<sup>2</sup>) is a two-week summer residential camp for rising junior and senior high school girls. A primary focus of the program is to help develop and sustain the interests of young women in engineering. Participants explore real world applications in a way that is fun and exciting. The majority of their time is spent in hands-on activities led by engineering faculty and graduate students. Students also complete an industry-sponsored design project and learn about preparing for life at college.

*Rising 11th and 12th Grade Females*