



VIRGINIA TECH



# FIND YOUR ROLE

- Bring your strength, your unique point of view. 10-15
- Blend your interests with diverse partners to solve global problems. 16-23
- Engage in hands-on learning, applying your knowledge in real-world settings. 24-31
- Create a world of good, and watch our motto—*Ut Prosim* (That I May Serve)—come to life. 32-39
- Student life at Virginia Tech is as rich as you make it. 40-45
- Explore majors, visit campus, apply, and learn more. 46-51



VIRGINIA TECH



## THIS IS THE PLACE WHERE YOU DISCOVER YOUR ROLE

How many times will you switch fields in your career? Twice? Ten? We know that industries, areas of study, and the careers that drive them evolve and change rapidly. Here, you'll discover the skills and knowledge not only to be ready, but to anticipate and stay ahead of those changes.

Your role is ahead of you.

Here, you'll find one-of-a-kind programs that merge various disciplines:

- Computational modeling and data analytics
- Neuroscience
- Agricultural and environmental analytics
- Sustainability and natural resources
- Science, technology, and society
- Political science and security

And you'll find an environment of excellence:

**#1 quality of life**  
The Princeton Review

**Top 25 in education, affordability, and outcomes—including career earnings**  
Forbes

**#2 among "best colleges you can actually get into"**  
Money Magazine

**#2 campus dining in the US**  
Niche

**#7 happiest students**  
The Princeton Review

**#1 fittest college in the US**  
Active Times

**#3 nationwide:**  
**animal and poultry sciences**  
USA Today

**#4 Overall agriculture programs**  
USA Today

**#5 nationally: architecture**  
**#5 in the South: industrial design**  
**#5 in the South: interior design**  
**#5 in the South: landscape architecture**  
DesignIntelligence

**#6 worldwide: hospitality and leisure management**  
QS World University

**#8 engineering program among US public universities**  
**#5 industrial / manufacturing**  
**#6 biological / agricultural**  
**#9 civil engineering**  
US News & World Report

**#1 in the US for human development and family, consumer, and human sciences programs**  
USA Today

**#1 in the US for studying natural resources and conservation**  
USA Today

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## THIS IS WHERE YOU FIND INSPIRATION

When world-renowned professors know you by name, when they invest their energy and knowledge in your growth, when you learn alongside them, your path becomes clear.

From day one, discovering your role is a formal part of the Virginia Tech experience.

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# LIVE WELL AT VIRGINIA TECH



**#7 HAPPIEST  
STUDENTS**

- The Princeton Review

**#1  
QUALITY  
OF LIFE**

- The Princeton Review

**#1  
FITTEST  
COLLEGE  
IN THE U.S.**

- Active Times

**#2  
ON-CAMPUS  
DINING**

- Niche

- 2,600-acre Blacksburg campus
- Programs in Roanoke and Northern Virginia
- Education abroad available in all colleges





BRING  
YOUR  
STRENGTH







What's your strength?

One of ours is the Virginia Tech commitment to diversity and inclusion. Attracting and retaining the best students and faculty from all walks of life allows us to build a community of engaged citizens who possess the cultural competence to thrive in any environment.

Maybe you know where your strength will take you.

Maybe you're still searching for what drives you. Either way, you've already come this far.

And we're ready to help you discover your role.

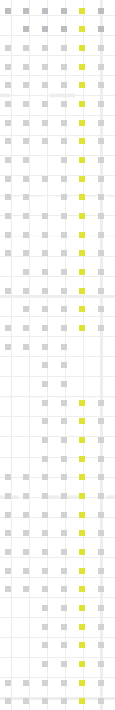






THIS IS THE PLACE  
WHERE LEADING  
IN CLASS  
BECOMES LEADING  
IN THE WORLD

Nneoma Nwankwo came to Virginia Tech all the way from Nigeria—and then returned to give back to her country. Nwankwo majored in political science, wrote poetry while minoring in creative writing, and did a summer internship with Goldman Sachs, but her biggest impact may have come from researching menstrual hygiene management in Nigeria under the Austin Michelle Cloyd Fellowship for Social Justice. She's now with Citibank as a global consumer bank diversity and strategy analyst.







BLEND  
YOUR  
INTERESTS



BLEND YOUR INTERESTS



You'll work in teams alongside others from diverse academic and cultural backgrounds to blend your interests.



By assembling complex areas of cross-disciplinary learning and discovery, Virginia Tech is becoming a global magnet for talent. We call these “destination areas,” where we focus on improving equity and the human condition by tackling the world’s biggest, baddest problems.

And we’re nimble. When the global-scale problems change, we adapt and move forward.

- Leveraging data for decisions
- Building intelligent infrastructure
- Developing cybersecurity and security solutions
- Understanding natural and human systems
- Examining the brain and behavior
- Weaving together creative technologies and innovation





## THIS IS WHERE PHYSICAL MEETS VIRTUAL

Aided by Virginia Tech professors, local high school students imagined a virtual world in Minecraft that was brought to life by the voices of Virginia Tech music students. Dubbed OPERAcraft, the virtual opera was performed in the Moss Arts Center's Cube: a four-story-tall theater and high-tech laboratory that serves multiple platforms of creative practice.



[vt.edu/visit](http://vt.edu/visit)





## THIS IS THE PLACE WHERE VISIONARIES COMPOSE WAYS TO HELP THOSE IN NEED

Abigail Smith won scholarships for her academics in industrial and systems engineering, but it was her musical inclinations that broadened her world view and led her to co-found Service Without Borders. This interdisciplinary, student-led organization traveled to Nepal to assist earthquake victims.



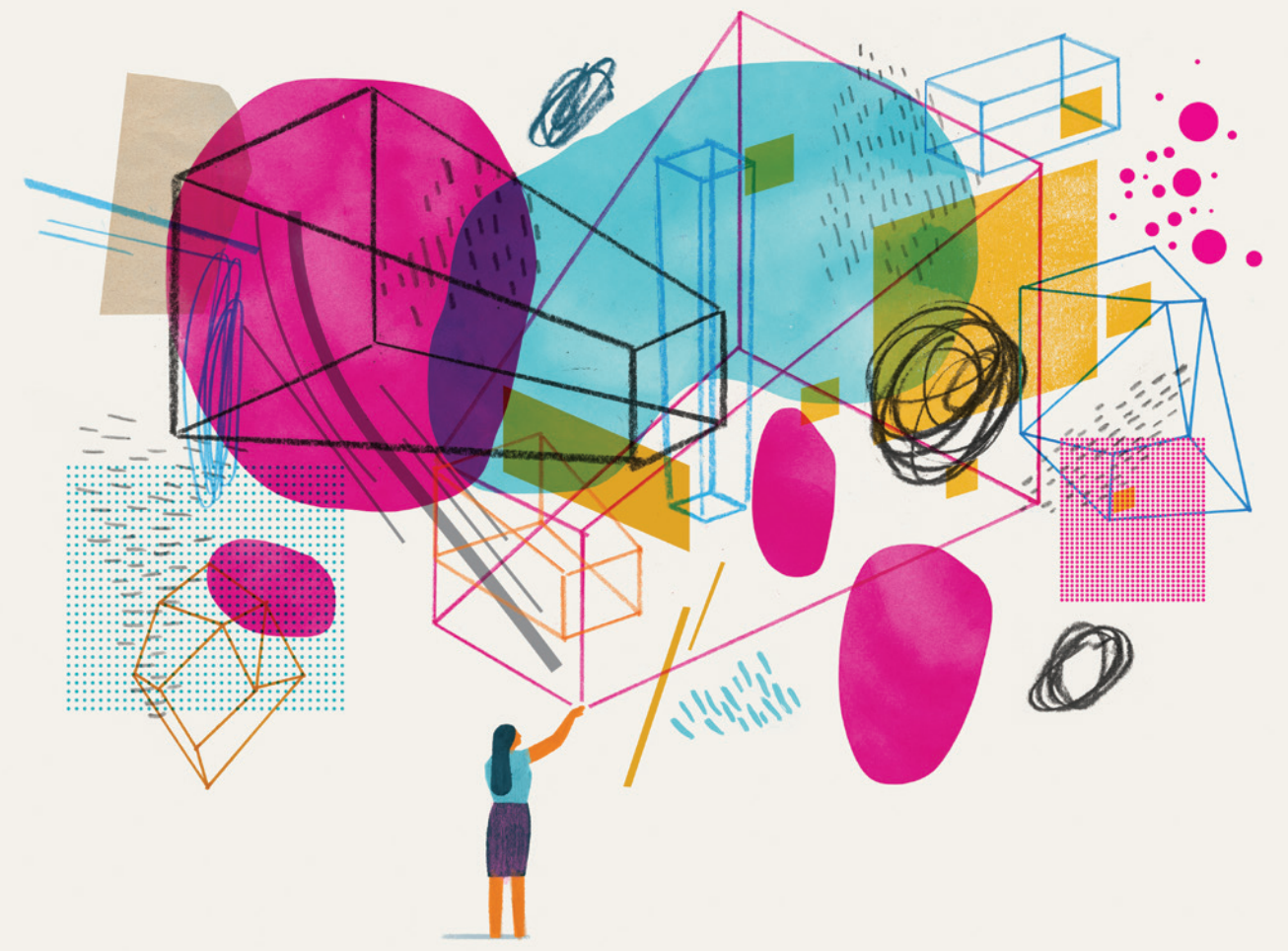
## THIS IS WHERE SAFETY IS A SCIENCE

Operating at the intersection of engineering, policy, biomechanics, physics, and other disciplines, Virginia Tech has pioneered impact ratings for football and hockey helmets. Now researchers are turning their attention to bicycle helmets.





ENGAGE IN  
HANDS-ON  
LEARNING





## LIVING- LEARNING COMMUNITIES

We're leading the way to the future of higher-education residential housing with groups such as the Innovate living-learning community, where undergraduate entrepreneurs share ideas, collaborate on research that demands teamwork, and mentor one another while learning to become leaders. And teams delegate work based on the skills a student wants to learn, rather than solely on majors.







## GLOBAL-SCALE RESEARCH

Virginia Tech commands a research portfolio that surpasses half a billion dollars and brings together interdisciplinary teams to solve global-scale problems.

What does that mean for you?

At Virginia Tech, every undergraduate has the opportunity to engage in research with faculty members. And not just research for the sake of discovering new things, but research that generates practical outcomes and entrepreneurial solutions for societal problems.

Here, your learning is hands-on. You'll apply new knowledge in real ways—from day one.

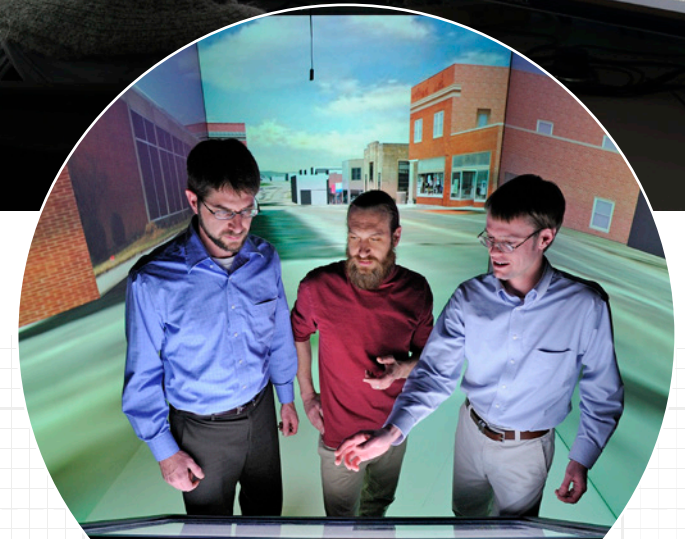






# THIS IS WHERE VISION BECOMES INTERACTIVE

The Visionarium, at the Advanced Research Computing Lab, offers interactive visual analysis and supercomputing to help students and researchers comprehend non-obvious information and relationships.





CREATE A  
WORLD OF  
GOOD







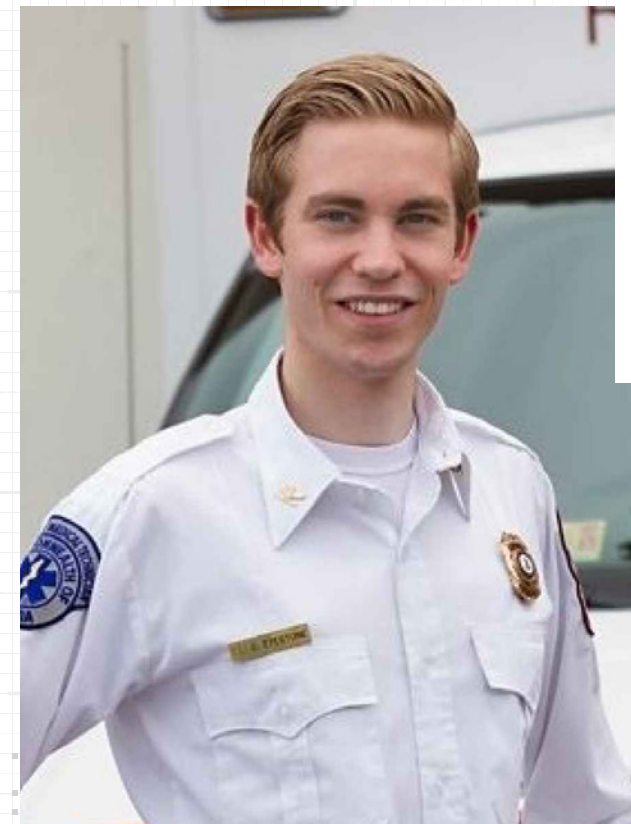
There's a Latin phrase you'll come to know well: *Ut Prosim*.

It means "That I May Serve."  
It's our motto.

Why *Ut Prosim*?

Because as a land-grant university, our purpose is to serve through teaching and learning and by sharing knowledge worldwide.

Practicing our motto can be as simple as lending a hand in troubled communities or as complex as combating malaria through genetically based mosquito-control strategies.



Chris Eyestone loves agriculture and business (he had his own landscaping business as a high school student), so he combined the two as CEO of the Department of Agricultural and Applied Economics' student-led investment group. And he put in 5,000 hours with the Virginia Tech Rescue Squad, including two terms as chief. "I will leave Virginia Tech with a well-trained mind and a full heart," he said.



## THIS IS WHERE LIFE LESSONS LEAD TO NURTURING FUTURE GENERATIONS

USA Today ranks Virginia Tech second in the nation for human development and family studies, partly because students can obtain the kind of hands-on training Carneshia Johnson experienced in the Child Development Center for Learning and Research—one of four living laboratories.



Maggie Carolan, a major in environmental science and water: resources, policy, and management, practices sustainability as the foundation of all she does. A member of the team led by Professor Marc Edwards that confirmed high levels of lead in Flint, Michigan's water, Maggie has also researched pathogens in plumbing, drinking water quality, and rainwater harvesting. She plans to pursue a career as an environmental justice-focused public health engineer.

## THIS IS THE PLACE WHERE ADVOCACY SAVES LIVES





## THIS IS WHERE GLOBAL CHALLENGES ARE ANSWERED

A group of highly motivated undergrads answered the call by SpaceX head Elon Musk to design a passenger-carrying pod that has the potential to exceed airliner speed in a near-vacuum tube. Virginia Tech's Hyperloop team has consistently placed in the top five as the competition continues to unfold.



First-generation college student Amina Rahimi always wanted to become a doctor, but interdisciplinary research opened her eyes to a wider world and to a prestigious Goldwater Scholarship. Part of the work that helped her win that prize—developing better imaging techniques to study viral interactions—was done in the structural biology lab of Deborah Kelly at the Virginia Tech Carilion Research Institute in Roanoke, Virginia. Now her goal is an advanced degree in cancer immunology and bioengineering and work as a lead scientist and practicing surgeon.

## WHERE LEARNING AND RESEARCH GO VIRAL







## FOCUS

Learning to lead is ingrained at Virginia Tech, and the Corps of Cadets, which has produced seven Medal of Honor recipients and more than 100 generals and admirals, is the embodiment of that tradition. We are one of just two senior military colleges that have a full-time corps alongside a civilian student body.

## EPIC

From rivers to mountains to roaring cheers at football games, the possibilities in student life are grand in scale.



## FLAVOR

Award-winning food at college? You bet. Virginia Tech has been ranked among the top three in the nation for several years running. From marinated London broil to vegetarian fare from locally sourced ingredients, we've got it.







## FLOCK TOGETHER

Anybody can find something of interest in our 800-plus registered student organizations.



## TEAM UP

Do you enjoy sports but not at the varsity level? We've got everything from serious club teams to intramurals or exercise classes and pickup games.





THIS IS  
WHERE  
WONDERS  
NEVER  
CEASE



VIRGINIA TECH  
CREATES  
A WORLD  
WITHOUT  
BOUNDARIES.

THIS IS  
OUR ROLE.

THIS IS  
YOUR ROLE.

DISCOVER IT.

[vt.edu/visit](https://vt.edu/visit)



## GETTING IN: WHAT'S IMPORTANT?

You are more than your grades. Maybe you weren't the valedictorian, but you inspired people in your community to make a difference.

Maybe you helped take care of your siblings because your parents worked long hours.

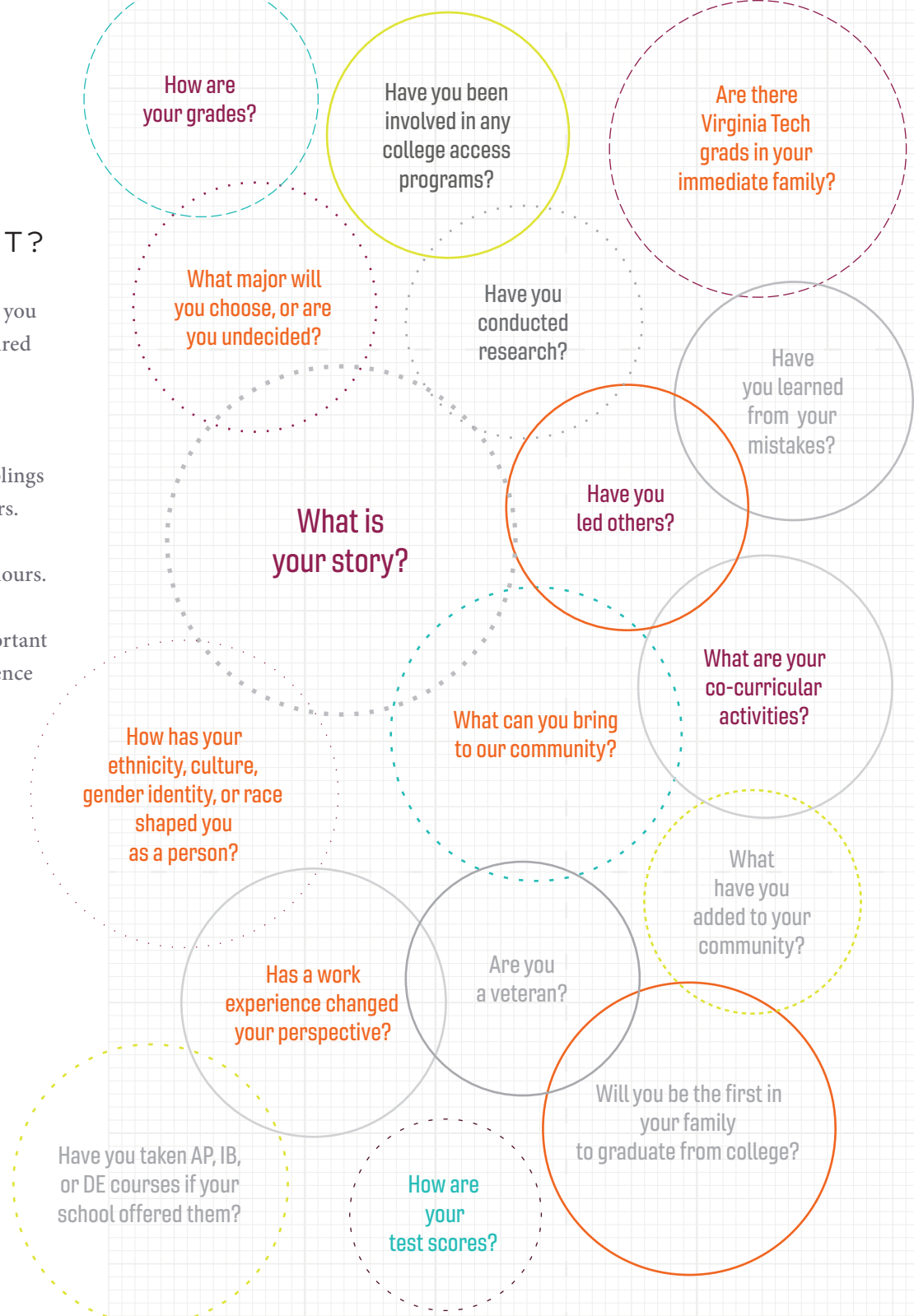
Maybe it was you working those long hours.

Your academic record is the most important factor, but lots of things matter. Excellence takes many forms.

We want to hear your story.

[vt.edu/visit](http://vt.edu/visit)

[vt.edu/admissions](http://vt.edu/admissions)



## DATES AND DEADLINES

### INCOMING FRESHMEN

Early Decision:  
Apply by November 1  
Notification by December 15

Regular Decision:  
Apply by December 1  
Notification by April 1

### INTERNATIONAL APPLICANTS

Apply by January 15  
Notification by April 1

This designation is given to individuals who

- are not a citizen or permanent resident of the US
- meet the minimum graduation requirements from high school
- are pursuing an undergraduate degree (either as a freshman or transfer)

### TRANSFER APPLICANTS

Apply by February 15  
Notification by May 1

Admission is offered on a competitive basis when space is available in the chosen field of study. Students are considered transfer applicants if they have formally enrolled at another college or university and attempted 12 or more hours after high school graduation.

Transfer applicants who have successfully completed the equivalent of Virginia Tech's core curriculum requirements, especially those who have completed two years at a Virginia community college, receive preference in the admissions process. Admissions directors can discuss courses required for admissions specific to the chosen program of study.

*Your admissions application is also your application to the Honors College.*



### ALL APPLICANTS:

General Scholarship Application:  
Apply by December 1

FAFSA Priority:  
Apply by January 15



## COLLEGE OF AGRICULTURE & LIFE SCIENCES

### MAJORS & OPTIONS WITHIN

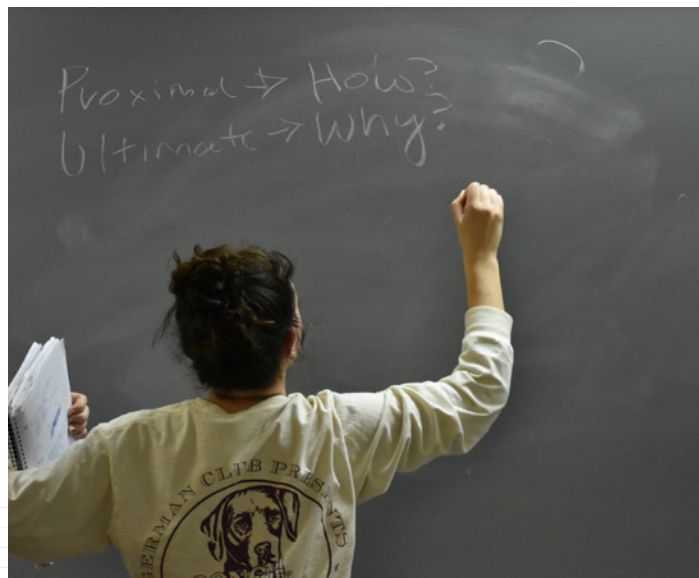
- Agribusiness
  - Agribusiness Management
  - Veterinary Business Management
- Agricultural Sciences
- Agricultural Technology
  - Applied Agricultural Management
  - Landscape & Turf Management
- Animal & Poultry Sciences
  - Pre-Vet
  - Production Business  
*(Livestock Emphasis, Poultry Emphasis, Equine Emphasis, Companion & Laboratory Animal Emphasis)*
  - Science  
*(Livestock Emphasis, Poultry Emphasis, Equine Emphasis, Companion & Laboratory Animal Emphasis)*
- Applied Economic Management
  - Community Econ. Development
  - Environmental Economics, Management, & Policy
  - Int'l Trade & Development
- Biochemistry
- Crop & Soil Sciences
  - Agronomy
  - Crop Genetics & Breeding
  - International Agriculture
  - Turfgrass Management
- Dairy Science
  - Biotechnology/Prevet
  - Dairy Enterprise Management
  - Dual Emphasis

- Environmental Horticulture
  - Land Restoration & Management
  - Land Water & Air
  - Water Science & Quality
- Food Science & Technology
  - Food Business
  - Food & Health
  - Fermentation
  - Science Concentration
  - Technology Concentration
- Human Nutrition, Foods, & Exercise
  - Dietetics
  - Science of Food, Nutrition, & Exercise
- Landscape Contracting
- Life Sciences, Undecided

### MINORS

- Agribusiness Management
- Agricultural & Applied Economics
- Agricultural Education
- Agricultural Marketing, Futures, & Price

- Analysis
- Animal & Poultry Sciences
  - Animal & Poultry Sciences: Equine
- Biochemistry
- Civic Agriculture & Food Systems
- Crop & Soil
- Environmental Sciences
- Dairy Science
- Entomology
- Environmental Economics
- Environmental Science
- Food Science & Technology
- Horticulture
- International Agricultural & Life Sciences
- International Trade & Development
- Leadership & Social Change
- Plant Health Sciences
- Turfgrass Management
- Viticulture
- Wetland Science



## COLLEGE OF ARCHITECTURE & URBAN STUDIES

### MAJORS & OPTIONS WITHIN

- Architecture \*\*\*
- Art
  - Art History
  - Creative Technologies
  - Studio Art
  - Visual Communications Design
- Building Construction
  - Construction & Design
  - Development, Real Estate, & Construction
- Environmental Policy & Planning
- Fine Arts
- Industrial Design \*\*\*
- Interior Design
- Landscape Architecture
- Public & Urban Affairs
  - Environmental Affairs
  - Global Development
  - Public & Nonprofit Management
  - Public Policy
  - Urbanization: Planning & Policy

### MINORS

- Art History
- Industrial Design
- Landscape Architecture
- Public & Urban Affairs
- Urban Affairs & Planning

## PAMPLIN COLLEGE OF BUSINESS

### MAJORS & OPTIONS WITHIN

- Accounting & Information Systems
  - Accounting
  - Accounting Info. Systems Audit
  - Information Systems
- Business, Undecided \* \*\*\*
- Business Information Technology
  - Computer-Based Decision Support Systems
  - Operations & Supply Chain Management
- Economics
- Finance
  - Banking & Financial Institutions
  - Certified Financial Planner
  - Corporate Financial Management
  - Financial Accounting
  - Investment Management
- Hospitality & Tourism Management
- Management
  - Entrepreneurship, Innovation, & Technology Management

- Management Consulting & Analysis
- Human Resource Management
- Marketing Management
  - Professional Sales
- Real Estate

### MINORS

- Applied Business Computing
- Business
- Business Diversity
- Digital Marketing Strategy
- Dress, Culture, & Society
- Entrepreneurship - New Venture Growth
- International Business
- Management: Business Leadership
- Marketing Management: Professional Sales
- Real Estate
- Small Business Management & Entrepreneurship



## COLLEGE OF ENGINEERING

### MAJORS & OPTIONS WITHIN

- Aerospace Engineering
  - Aerospace/Ocean Engineering, Double major
- Biological Systems Engineering
- Chemical Engineering
- Civil & Environmental Engineering
- Computer Engineering
- Computer Science
- Construction Engineering & Management
- Electrical Engineering
- Engineering Science & Mechanics
  - Biomechanics
  - Engineering Physics
- General Engineering
- Industrial & Systems Engineering
- Materials Science & Engineering

- Nuclear Material
- Mechanical Engineering
- Mining Engineering
- Ocean Engineering
  - Aerospace/Ocean Engineering, Double major

### MINORS

- Applied Business Computing
- Biomedical Engineering
- Circuits & Electronics
- Computer Science
- Construction
- Cybersecurity
- Engineering Science & Mechanics
- Green Engineering
- Interdisciplinary Engineering & Science
- Microelectronics Engineering
- Naval Engineering

\* Freshman applicants may be admitted to Business, Liberal Arts, Life Sciences, Natural Resources, or Pre-Education and Human Sciences as undecided and choose a concentration later in their academic career. Students may not graduate from these undecided tracks.

\*\* Freshman applicants unsure of their desired course of study may apply to University Studies or Explore Technology. Students must select a major by the time they complete 60 credits of study (usually the end of the second year.)

\*\*\* These majors are not available to transfer applicants.



## INTER-DISCIPLINARY STUDIES

### MAJORS & OPTIONS WITHIN

University Studies \*\*  
Explore Technology \*\*

## COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES

### MAJORS & OPTIONS WITHIN

Apparel, Housing, & Resource Management  
Family & Consumer Sciences  
Classical Studies  
Communication Studies  
Consumer Studies  
Creative Writing  
Criminology  
English  
Fashion Merchandising & Design  
French  
German  
History  
Global/Comparative History  
Military/Diplomatic/Political History  
Undergraduate Research/Thesis  
Social/Cultural/Economic History  
History of Science/Technology/Environment  
Human Development

Humanities, Science, & Environment  
International Studies  
Business  
Environmental Affairs  
Global Development  
Security & Foreign Policy  
World Politics & Policy  
Liberal Arts & Human Sciences, Undecided  
Literature & Language  
Literature  
Pre-Education  
Pre-Law  
Multimedia Journalism  
Sports Media & Analytics  
Concentration  
Music  
Creative Technologies  
Composition  
Designed Option-Professional Education (Pre-Teacher Cert.)  
Performance Liberal Arts  
Performance Professional Instrumental  
Performance Professional Vocal  
Technology Liberal Arts  
Technology Professional  
Philosophy  
Pre-Medical Professions  
Political Science  
Legal Studies  
National Security Studies  
National Security & Foreign Affairs  
Political Theory  
Global Engagement  
Professional & Technical Writing  
Property Management  
Residential Property Management  
Public Relations

Religion & Culture  
Residential Environments & Design  
Russian  
Sociology  
Africana Studies  
American Indian Studies  
Crime/Deviance  
Diversity & Community Engagement  
Gender, Science & Technology  
Peace Studies & Violence Prevention  
Social Inequality  
Research Methods  
Women's & Gender Studies  
Spanish  
Theatre Arts  
Cinema  
Design  
General Theatre  
Performance  
**MINORS**  
Arabic  
Chinese Studies  
Cinema  
Cinema Studies  
Classical Languages  
Communication Studies  
Consumer Studies  
Creative Writing  
Cultural Studies  
French for Business  
French for Business (Advanced)  
German  
History  
History: War & Society

Housing  
Humanities (Cross-Cultural)  
Humanities (Historical)  
Humanities (Modern)  
Humanities for the Arts  
Humanities, Science, & Environment  
Humanities, Science, & Technology  
Italian  
Japanese Studies  
Language Sciences  
Latin  
Leadership, Corps of Cadets  
Literature  
Literature, Language, & Culture  
Medicine & Society  
Music  
Music: Jazz Studies  
Music: Technology Emphasis  
Philosophy  
Philosophy, Politics, & Economics  
Political Science  
Political Science: International Studies  
Political Science International Public Policy  
Political Science International Relations  
Professional Writing  
Professional & Technical Writing  
Religion & Culture: American Studies  
Religion & Culture: Appalachian Studies  
Religion & Culture: Asian Studies  
Religion & Culture: Judaic Studies  
Religion & Culture: Medieval & Early Modern Studies  
Religion & Culture: Middle East Studies  
Religion & Culture: Popular Culture

Religion  
Russian  
Russian Area Studies  
Sociology  
Sociology: Africana Studies  
Sociology: American Indian Studies  
Sociology: Diversity & Community Engagement  
Sociology: Gender, Science & Technology  
Sociology: Peace Studies & Violence Prevention  
Sociology: Women's & Gender Studies  
Sociology: Women's Studies-Leadership  
Spanish  
Theatre Arts

## COLLEGE OF NATURAL RESOURCES & ENVIRONMENT

### MAJORS & OPTIONS WITHIN

Environmental Informatics  
Environmental Resources Management  
Environmental Resource Management  
Watershed Management  
Fish Conservation  
Freshwater Fisheries Conservation  
Marine Fisheries Conservation  
Forestry  
Forest Operations & Business  
Forest Resource Management  
Urban Forestry  
Geography

Meteorology  
Natural Resources, Undecided  
Natural Resources Conservation  
Environmental Education  
Conservation & Recreation Management  
Natural Resources Science Ed.  
Packaging Systems & Design  
Sustainable Biomaterials  
Water: Resources, Policy, & Management  
Wildlife Conservation

### MINORS

Forestry  
Forestry: Urban Forestry  
Geography  
Geographic Information Science  
Meteorology  
Natural Resources Recreation  
Packaging Science  
Sustainable Natural Environments  
Watershed Management  
Wood Science & Forest Products

## COLLEGE OF SCIENCE

### MAJORS & OPTIONS WITHIN

Biochemistry  
Biological Sciences  
Biomedical  
Chemistry  
Circuits & Electronics  
Clinical Neuroscience  
Computational Modeling & Data Analytics  
Economics  
Physics  
Economics  
Geosciences  
Mathematics  
Microbiology  
Nanoscience  
Neuroscience  
Cognitive & Behavioral Neuroscience  
Computational & Systems Neuroscience  
Experimental Neuroscience

Physics  
Physics Education  
Pre-Health  
Pre-Law  
Psychology  
Statistics  
Systems Biology  
**MINORS**  
Actuarial Sciences  
Astronomy  
Biological Physics  
Biological Sciences  
Chemistry  
Circuits & Electronics  
Economics  
Geosciences  
Mathematics  
Nanoscience  
Physics  
Psychology  
Science, Engineering, & Law  
Statistics  
Systems Biology



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Illustrations by Keith Negley

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, or veteran status; or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees, or applicants; or any other basis protected by law.

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