



GRADUATE SCHOOL
VIRGINIA TECH.

VIRGINIA TECH GRADUATE SCHOOL
Inclusive, Individualized, Innovative Education

The Graduate School

Graduate students at Virginia Tech are an important and valued part of the academic community. We view graduate education as a partnership between outstanding graduate students and distinguished and internationally renowned faculty. Graduate students collaborate with faculty to continue our longstanding commitment to learning, discovery, and engagement.

Vice President and Dean
for Graduate Education
Karen P. DePauw



What makes us unique?

THE GRADUATE LIFE CENTER

The Graduate Life Center (GLC) is the heart of a progressive, inclusive graduate community and gathers administrative, academic, social, and residential functions all under one roof. The GLC offers housing, academic, and meeting spaces; programming and social activities; and Graduate School offices in an award-winning complex not found at any other institution. The GLC provides students opportunities to meet and collaborate with faculty and peers across disciplines, develop skills for academic and professional success, and maintain a healthy work-life balance.

TRANSFORMATIVE GRADUATE EDUCATION (TGE)

The Graduate School facilitates the Transformative Graduate Education (TGE) initiative developed by Vice President and Dean for Graduate Education Karen. P. DePauw. Through a mix of unique programs and opportunities, TGE pushes the boundaries of traditional disciplinary academic education, encouraging interdisciplinary research and collaboration across fields. All of our TGE programs, courses, workshops, and support services are rooted in the four pillars of knowledge, leadership, scholarly inquiry, and social responsibility. We aim to significantly change how graduate students prepare to become the next generation of scientists, educators, scholars, engineers, artists, and career professionals in an ever-evolving global context.

HOLISTIC ADMISSIONS

You are more than your grades, GRE score, or where you went to school. At Virginia Tech, we approach admission from an inclusive, rather than exclusive, perspective. Using a holistic admissions process, we look at many aspects of the student, including such things as work experience, community involvement and service, leadership, personal and professional ethics, research and scholarship, and the barriers you have dealt with while pursuing your goals.

Application and Admission

ADMISSION REQUIREMENTS

All applicants must have a baccalaureate degree or the equivalent of a U.S. four-year degree from a regionally accredited institution. All applicants must submit the following items:

- Completed application
- Official transcripts from all institutions where a bachelor's degree was received or graduate-level work was undertaken
- Non-refundable application fee

Other materials required by departments may include the following (check department websites for details):

- Letters of recommendation
- Statement of purpose
- Résumé or curriculum vitae
- Supplemental information
(*example of written work, essay questions, etc.*)
- An official report of test scores (*GRE, GMAT, etc.*)

INTERNATIONAL APPLICANTS

International applicants must demonstrate English language proficiency. Acceptable documentation includes TOEFL, IELTS, or proof that English was the language of instruction for earned degrees.

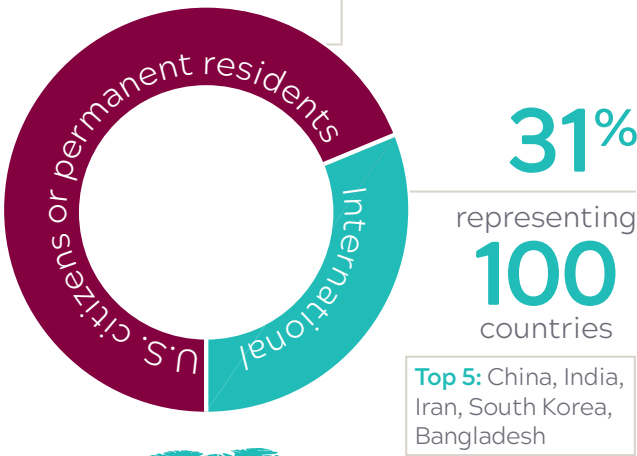
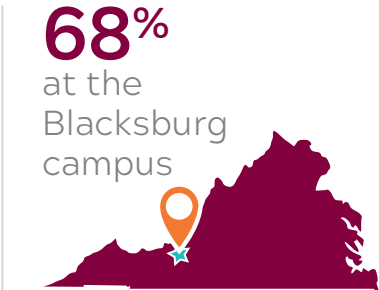
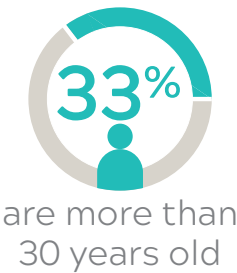
NON-DEGREE GRADUATE PROGRAMS AND CERTIFICATES

Individuals who hold a baccalaureate degree may apply for admission to one of our non-degree programs. Visit our graduate catalog to get a listing of programs and degree options.

Apply online at www.graduateschool.vt.edu

Graduate School by the numbers

2019 total enrollment:



The World is Our Campus



Switzerland

Egypt

VIRGINIA TECH AT A GLANCE

From our founding in 1872 to today, university traditions are firmly rooted in our motto, Ut Prosim (That I May Serve) and in our land-grant missions of instruction, research, and solving the problems of society through public service and outreach activities.

The main campus is located in Blacksburg, Virginia, with extended campus locations spread across the Commonwealth of Virginia, and programs and centers located in Asia, Africa, Europe, and the Caribbean.

9
colleges and the
Graduate School

8
major
research institutes

75
graduate certificate
programs offered
university-wide

170
master's and
doctoral degree
programs

244,500
alumni living
in every state
and more than
100 countries

3,900
faculty members,
instructors, and
researchers

34,000+
students (about 6,500
graduate students)

PROFESSIONAL DEVELOPMENT

We provide a range of events and activities to help our graduate students prepare, connect, succeed, and standout as they pursue their degrees and professional goals in highly competitive global markets. We partner with other university departments to offer scholarly and extracurricular activities based on the Transformative Graduate Education initiative. Recent program and seminar topics include:

- **Career Fair Preparation**
- **Interviewing Skills**
- **Professionalize Your Writing**
- **Networking**
- **Academic Job Searches**
- **Building a Strong LinkedIn Presence**
- **Communicating Your Research to Different Audiences**



An Inclusive, Diverse Community

The Graduate School is committed to supporting an inclusive, diverse community of students, faculty and administrators, one in which students thrive, not just survive, during their education journey.

Each month we host a series of free Connect Lunches, open to all students and designed to bring together graduate students, faculty, and staff who identify with the culture or social identity being celebrated.

For students looking to create dialogue and implement change for a more diverse and inclusive experience for the larger university community, we offer the Diversity Scholars program. Diversity Scholars specialize in and advocate for the awareness, knowledge, and skills associated with inclusion and diversity.

The Graduate School launched several programs to help students with families. These include the Little Hokie™ Hangout cooperative playgroup to provide affordable, quality child care, a parent support group, and a babysitter clearinghouse.

Research

Graduate Students are key members of the university's research community. In addition to research programs, labs, and institutes across the university, the Graduate School supports Interdisciplinary Graduate Education Programs (IGEPs) to promote and sustain interdisciplinary graduate education and research. More than 300 graduate students currently participate in the IGEPs.

Each program addresses a major fundamental problem or complex societal issue requiring an interdisciplinary team of scholars. They focus on using innovative and integrative approaches to produce the next generation of global leaders in science, education, and other fields.

Coursework and program-specific activities are designed to develop the four pillars of the Transformative Graduate Education Experience: Knowledge, Leadership, Scholarly Inquiry and Social Responsibility.

In addition to these programs, the university has developed several other interdisciplinary programs for graduate students that span its colleges and campuses.

Interdisciplinary Graduate Education Programs supported by the Graduate School:

- Bio-Inspired Buildings
- Biological Transport (BIOTRANS)
- Computational Tissue Engineering (CTE)
- Disaster Resilience
- Genetics, Bioinformatics, and Computational Biology (GBCB)
- Human-Centered Design
- Interfaces of Global Change
- Macromolecular Science and Engineering (MACR)
- Regenerative Medicine
- Remote Sensing
- Sustainable Nanotechnology (SuN)
- Translational Obesity Research

- Translational Plant Science
- Water INTERface

Additional interdisciplinary programs:

- Alliance for Social, Political, Ethical, and Cultural Thought (ASPECT)
- Geospatial and Environmental Analysis
- Molecular and Cellular Biology
- Science and Technology Studies
- Translational Biology, Medicine, and Health

COMMUNICATING SCIENCE

Dean DePauw has noted that higher education typically does not provide opportunities for scholars to communicate their work effectively outside their fields, or to the general public. To fill that gap, she launched Communicating Science, a two-credit course offered in both spring and fall semesters. Interest in and demand for the course led to the Center for Communicating Science at Virginia Tech, which creates and supports opportunities for scientists, scholars, health professionals, and others to develop their abilities to communicate and connect.

IPHD

In addition to the interdisciplinary programs, the Graduate School manages the individualized interdisciplinary Ph.D. (IPhD) program, in which students develop one-of-a-kind doctoral research that spans more than one field.

Global Perspectives program

The Global Perspectives program offers students the opportunity to explore differences in academic practices and higher education issues through collaborations with students, faculty and administrators at institutes in Europe and Ecuador. Students work on individual and group projects. **More than 150 students have participated in the program since its inception in 2005.**



Future professoriate certificate

This graduate certificate aims to prepare our future faculty and academic leaders through exposure to concepts that break the mold of existing practices in higher education. Many leaders in the academic and business communities have challenged colleges and universities to embrace change to ensure the viability of the higher education enterprise. Rather than settle for the status quo and witness a probable decline in sustainability, most argue that it is time to create new models and new methods of training for the future professoriate, who will become the faculty and academic leaders of tomorrow.

Academic leaders of tomorrow

Many academic and business leaders and the public have challenged colleges and universities to embrace change to ensure the viability of the higher education enterprise.

Advocates for change argue that it is time to create new models and new methods of training for the future professoriate, who will become the faculty and academic leaders of tomorrow. Dean DePauw is at the forefront of this movement and the Graduate School has taken up this challenge. One of the key elements of the **Transformative Graduate Education initiative** is a focus on Preparing the Future Professoriate. From the extensive and innovative Graduate Teaching Assistants (GTA) training workshop and seminars, to mentoring workshops and support, to our **Academy for GTA Excellence**, we focus on helping our students succeed and stand out among their peers across the globe.



Academic Programs

THE GRADUATE SCHOOL

■ Doctoral
 ■ Education
 ■ Master's
 ■ Certificate
 ■ Accelerated
B Blacksburg
H Hampton Roads
S Southwest Virginia
V Virtual
R Roanoke
W Greater Washington D.C. area
Ri Richmond

Aerospace Engineering B,V	■	■	■
Africana Studies B	■	■	
Agriculture and Applied Economics B	■	■	■
Agriculture, Leadership, and Community Education B,V	■	■	■
Agriculture and Life Sciences V	■	■	■
Air Transportation Systems B	■	■	
Alliance for Social, Political, Ethical, and Cultural Thought B	■	■	
Animal and Poultry Sciences B	■	■	■
Architecture B,W	■	■	
Architecture and Design Research (Options: Architecture, Design Research, Landscape Architecture, Urban Design) B,W	■	■	
Arts Leadership B	■	■	
Bio-based Materials B	■	■	
Bio-Inspired Buildings* B	■	■	
Biochemistry B	■	■	■
Biological Sciences B	■	■	■
Biological Systems Engineering B	■	■	■
Biological Transport* B	■	■	
Biomedical and Veterinary Sciences B	■	■	
Biomedical Engineering B,R	■	■	
Biomedical Technology Development and Management W	■	■	
Building/Construction Science and Management B	■	■	■
Business, Accounting and Information Systems B	■	■	■
Business Administration (Evening, Executive, Professional) B,Ri,R,W	■	■	■
Business Analytics and Data Mining V	■	■	
Business, Entrepreneurship in Hospitality and Tourism Management W	■	■	
Business, Executive Business Research B	■	■	
Business, Finance B	■	■	
Business, Health Information Technology V	■	■	
Business, Hospitality and Tourism Analytics and Revenue Management V	■	■	

Business, Hospitality and Tourism Management B,W	■	■	■
Business, Information Security and Analytics	■	■	
Business, Information Technology B	■	■	
Business, Information Technology Management	■	■	
Business, International Hospitality and Tourism Strategy	■	■	
Business, Management B	■	■	
Business, Marketing B	■	■	■
Chemical Engineering B	■	■	
Chemistry B	■	■	
Civil Engineering (Options: Civil Infrastructure, Construction Engineering and Management, Environmental and Water Resources, Geospatial Engineering, Geotechnical, Structural Engineering and Materials, Transportation Infrastructure and Systems Engineering) B,W	■	■	■
Civil Infrastructure Systems B	■	■	
Collaborative Community Leadership B	■	■	
Communication B	■	■	
Computational Engineering Science and Mechanics B	■	■	
Computational Tissue Engineering* B	■	■	
Computer Engineering B,H,R,Ri,S,V,W	■	■	■
Computer Science and Applications B,W	■	■	■
Creative Technologies B	■	■	
Creative Writing B	■	■	
Critical Design Thinking B	■	■	
Crop and Soil Environmental Sciences B	■	■	
Cybersecurity Engineering	■	■	
Dairy Science B	■	■	
Data Analysis and Applied Statistics B	■	■	
Data Analytics V	■	■	
Disaster Resilience* B	■	■	
Economic Development B,V	■	■	
Economic Risk and Global Inequality W	■	■	
Economics B	■	■	■

*Interdisciplinary Graduate Education Program

Academic Programs

■ Doctoral
 ■ Education
 ■ Master's
 ■ Certificate
 ■ Accelerated

B Blacksburg
 S Southwest Virginia
H Hampton Roads
 V Virtual
R Roanoke
 W Greater Washington D.C. area
Ri Richmond

Education, Career and Technical B,H,R,S,W					Foreign Languages, Cultures, and Literatures (Options: French/Franophone Studies, Multi-language Studies, Hispanic Studies) B,V						
Education, Career and Technical (Teaching licensure) B					Forest Products B						
Education, Cognition Education B					Forestry B						
Education, Counselor Education B,R,W					Foundations of Political Analysis B						
Education, Curriculum and Instruction B					Future Professoriate B						
Education, Curriculum and Instruction (Options: Elementary Education, English, English as a Second Language, Foundations, History and Social Science, Mathematics, Music, Science, Special Education, Technology) B					Genetics, Bioinformatics, and Computational Biology* B						
Education, Curriculum and Instruction (Options: Educational Psychology, Instructional Design and Technology, Integrative STEM Education) B					Geography B						
Education, Curriculum and Instruction, Instructional Technology Master of Arts V					Geosciences B						
Education, Curriculum and Instruction (Options: Reading Specialist, Math Specialist) B,R,S					Geospatial and Environmental Analysis B						
Education, Educational Leadership and Policy Studies (Educational Leadership Option) B,H,R,Ri,S,W					Geospatial Information Technology B						
Education, Educational Leadership and Policy Studies (Higher Education option) B					Gerontology B						
Education, Educational Research and Evaluation B					Global Planning and International Development Studies B,W						
Education, Learning Sciences B					Global Sustainability B						
Educational Research B					Government and International Affairs B,W						
Electrical Engineering B,H,R,Ri,S,V,W					Higher Education B						
Emerging Devices Technologies B					Higher Education Administration B						
Engineering Education B,H,R,Ri,S,W					History B						
Engineering Mechanics B					Homeland Security Policy B,W						
English B					Horticulture B						
Entomology B,V					Human-Centered Design* B						
Environmental Design and Planning B					Human Development (Options: Adult Development and Aging, Child and Adolescent Development, Family Studies) B						
Environmental Engineering B,W					Human Development (Options: Adult Learning, Human Resource Development) W						
Environmental Politics and Policy B,V					Human Factors of Transportation Safety B						
Fisheries and Wildlife Conservation B					Human Nutrition, Foods and Exercise (Options: Basic, Clinical, Behavioral) B						
Food Science and Technology B,V					Human Nutrition (Option: Muscle Physiology and Biochemistry) B						
					Human Sexuality Studies B						
					Human System Integration B,H,R,Ri,S,W						
					Inclusion and Diversity B,V,W						

*Interdisciplinary Graduate Education Program

*Interdisciplinary Graduate Education Program

Individual Interdisciplinary B					
Industrial and Systems Engineering (Options: General Industrial, Human Factors, Management Systems, Manufacturing, and Operations Research) B,H,R,Ri,S,W					
Information Policy and Society B,W					
Information Security and Analytics V					
Information Technology V					
Integrated STEM B					
Interdisciplinary Water and Health Science B					
Interfaces of Global Change* B					
International Research Abroad B,W					
Landscape Architecture B					
Local Government Management B,W					
Macromolecular Science and Engineering B					
Material Culture and Public Humanities B					
Materials Science and Engineering B					
Mathematics B					
Mechanical Engineering B,H,W					
Metropolitan Studies B,W					
Middle East Politics and Society W					
Mining Engineering B					
Molecular and Cellular Biology* B					
Multidisciplinary Research in International Development B					
Natural Resources V,W					
Naval Engineering B,V					
Neuroscience B					
Nonprofit and Nongovernmental Organization Management B,W					
Nuclear Engineering B,W					
Nuclear Science, Technology, and Policy W					
Ocean Engineering B,V					
Philosophy B					
Physics B					
Planning, Governance, and Globalization B,W					
Plant Pathology, Physiology, and Weed Science B					
Political Science B,V					
Politics and Policy Studies of Science and Technology B,W					
Problem Solving for Leading Change B					

Psychology B					
Public Administration B,R,W					
Public Administration and Public Affairs B,W					
Public Health B					
Public History B					
Public and Nonprofit Financial Management B					
Quantitative Resource Assessment B					
Race and Social Policy B,W					
Regenerative Medicine* B					
Religious Studies B					
Remote Sensing* B					
Research in Translational Medicine B					
Rhetoric and Writing B					
Science and Technology Studies B,W					
Security Studies B,V					
Sociology B					
Software Development V					
Special Education Administration and Supervision B					
Statistics B					
Sustainable Nanotechnology* B					
Technology Management					
Theatre Arts B					
Traffic Control and Operations B					
Translational Biology, Medicine, and Health R					
Translational Obesity Research* B					
Translational Plant Science* B					
Transportation Systems Engineering B					
Treatment Process Engineering W					
Urban and Regional Planning B,H,R,Ri,V,W					
Urban Computing B,W					
Urban Hydrology and Stormwater Management B					
Water INTERface* B					
Water Quality Management B					
Watershed Management B					
Women's and Gender Studies B					



GRADUATE SCHOOL
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Contact the Graduate School

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540-767-6100

Richmond

www.richmond.vt.edu
804-662-7288

Greater Washington D.C. Area

www.ncr.vt.edu
703-538-8327

Hampton Roads

www.hrc.vt.edu
757-363-3930

Southwest Virginia

www.swcenter.edu
276-619-4311

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