



DEPARTMENT OF

BIOCHEMISTRY

A major in **biochemistry** explores the branch of the life sciences devoted to understanding the chemical and molecular processes inside and related to living systems. You will receive a solid foundation in biology and chemistry coursework on your way to gaining an appreciation of how these sciences integrate to describe life's processes. You will have the opportunity to experience a diverse range of undergraduate research areas, including drug discovery, molecular modeling, enzyme regulation, metabolism, infectious disease, plant biochemistry, molecular biology, cell biology, analytical biochemistry, and cancer biology.

FIND YOUR FOCUS

A degree in biochemistry can lead to a challenging and rewarding career in industry, academia, or government.

Genetic Engineering - Develop a drought-resistant crop through genetic engineering.

Drug Discovery and Development - Design better drugs using computerized models of proteins that are associated with disease.

Biofuel Development - Engineer enzymes to enhance the production of biofuels.

Genomic Research - Mine genomes ranging from microorganisms to humans to reveal undiscovered secrets of the genetic code.

Microbiomes - Determine the role of the microbiome in cancer and other diseases using state-of-the-art techniques.



COLLEGE OF
AGRICULTURE AND
LIFE SCIENCES
VIRGINIA TECH.

Earn a B.S. degree that is complementary to students interested in pursuing post-graduate degrees at medical, dental, pharmacy, nursing, physical therapy, and graduate schools.



#IAMVTCALS

EXPLORE YOUR ROLE

Aspiring molecular life scientists obtain a world-class education that includes:

- Intensive experiential learning opportunities
- Rigorous and effective application of the scientific method
- Computational and quantitative analysis
- Fundamental coursework in biology, chemistry, math, and physics

For more information

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