

PHYSICS + ENGINEERING

RANDOLPH COLLEGE PHYSICS DEPARTMENT DUAL DEGREE PROGRAM

3+2

**FIVE YEARS,
TWO DEGREES,
ONE GREAT
EXPERIENCE.**



Earn a B.S. in Engineering Physics and either a B.S. or M.S. in Engineering in Randolph College's unique 3+2 Dual Degree program.



RANDOLPH COLLEGE

Department of Physics
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for more information contact Peter Sheldon at
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OPPORTUNITY AND FLEXIBILITY

Randolph College's 3+2 Dual Degree program enables you to benefit from the best of two worlds: a solid liberal arts education enhanced with independent research experiences that are appealing to graduate schools and prospective employers, and the experience of attending a research university and earning a degree in engineering. This unique opportunity provides the experience and knowledge that will serve you well in your future.

You plan for the 3+2 Dual Degree program from your first year, but do not have to commit to it until your fourth year. After your first three years at Randolph College, you have two options: stay at the College and earn an Physics degree (or a degree in another field, depending on your course selections), or attend an engineering school and earn either a B.S. or M.S. in Engineering.

OUTSTANDING RESOURCES FOR TOMORROW'S INNOVATORS

- The Physics Department features technology-based labs, with computer stations and interfacing equipment, for all classes and general use by physics students.
- Class size for physics courses are typically smaller than ten students, allowing for a great deal of individual attention from faculty.
- Faculty research interests include low temperature physics, laser spectroscopy, shoreline erosion, water quality, automobile accidents, inertial navigation,

mobile monitoring, Alzheimer's Disease, astronomy, astrophysics, and science education.

- All students have the opportunity to obtain internships or significant research experience before their senior year: Randolph College's RISE program funds student research after the first year, its Summer Research Program offers additional research opportunities, and the Career Development Center facilitates internships.
- The Winfree Observatory houses a 14-inch telescope equipped with a CCD camera and robotic mount. Students regularly participate in observation and research.
- Students interested in physics are encouraged to join our active Society of Physics Students, which has won a national Chapter Award every year since 2006.
- 70% of Randolph College physics majors continue with graduate study at top schools, and 50% of physics majors become engineers.

ATTENDING THE NATION'S TOP ENGINEERING SCHOOLS

The 3+2 Dual Degree program has agreements with top engineering schools: Vanderbilt University, University of Virginia, and Washington University in St. Louis.

HOW THE 3+2 DUAL DEGREE PROGRAM WORKS

During your first three years at Randolph College, you complete courses toward an Engineering degree in the field of your choice. In the third

year, you apply to the engineering school (our agreements guarantee acceptance to Randolph College students in good standing and with a 3.25 GPA). After you complete your first year at the engineering school, you are eligible to receive a B.S. in Engineering Physics. When you complete the second year, you will receive either a B.S. or M.S. in the engineering field of your choice from the engineering school.

COURSES FOR THE 3+2 DUAL DEGREE BS IN ENGINEERING PHYSICS

Required Courses:

General Physics I, II with Lab Statics
Relativity and Quantum Mechanics
General Chemistry I, II with Lab
Calculus I, II, III
Advanced Physics or Electronics Lab
Differential Equations
Computer Programming
Matlab & Labview
One Additional Physical Science

Senior Program:

Completion of one year of engineering degree program at an engineering school.



Contact Information

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