



RANDOLPH COLLEGE

Founded as Randolph-Macon Woman's College in 1891

Biology

Career Options for the Biology Undergraduate

The curriculum of the Department of Biology supports both the liberal arts and career interests of the student. Stressing current trends in biology and laboratory investigation, the curriculum for the major includes core courses in zoology, botany, physiology, and molecular biology; a wide variety of upper-level subjects; opportunities for independent study, experiential learning, and honors study in related areas; and a senior program focusing on topics in contemporary biology. Students majoring in biology may focus their major in environmental biology, molecular and cell biology, organismal biology, health-related biology, or choose a more general program.

Medicine and Health

Medical Illustrator
Biological Researcher
*Toxicologist or Bacteriologist
*Biostatistician
*Physician
*Veterinarian
*Epidemiologist
*Genetic Engineer
*Health Policy Consultant
*Data Analyst
*Administrator, HMO
*Medical Librarian
*Medical Technologist
*Dentist or Dental Hygienist
*Optometrist or Ophthalmologist
*Pharmacist
*Physiologist
*Nurse
*Dietician
Radiation Therapist
Radiology Technician
Forensic Science Technician
EMT/Paramedic
Surgical Technician
Orthotist & Prosthetist
*Audiologist
Microbiologist

Environmental

Park Naturalist
Fundraiser, Environmental Organization
Ecologist
Curator, Botanical Gardens
Entomologist
*Ichthyologist
*Zoologist
*Botanist

Business and Industry

Journalist Science Magazine Editor
Pharmaceutical Sales Representative
Pest control consultant
Food Technician/Technologist
Technical Writer
*Bioengineer
*Molecular Biologist
*Industrial Hygienist
*Biochemist
Occupational Health and Safety Specialist

Government and Public Sector

Environmental Protection Specialist
Teacher
Water Quality Inspector
Aquarist
Park Ranger
Medical Librarian
*Food and Drug Inspector
*Parasitologist
*Professor
*City Recycling Manager
*Administrator, Nuclear Waste Program
*Public Health Officer

**Denotes Careers that may require a Graduate Degree.*

Job Outlook for these Careers:

National: U.S. Department of Labor
www.bls.gov/oco/home.htm

Virginia:
www.vaview.vt.edu

Randolph Internship Opportunities

American Red Cross
Bioethical Services of Central Virginia
Central Virginia Alzheimer's Association
Leukemia & Lymphoma Society

Marine Science Internships
Ocean Mammal Institute
Mote Marine Laboratory Center Shark Research
Roseville Veterinary Clinic

Employers of Alumnae

American Cancer Society
Patuxent Medical Group
Oregon Health and Science University
Glaxo Smith Kline Pharmaceuticals

Center for Inherited Disease Research, John
Hopkins University
The Foundation for Medically Fragile Children

Liberal Arts Skills

Investigation

Inspecting specimens
Assessing risks
Defining potential results
Identifying problems
Cataloging information

Research

Defining problems
Organizing ideas/information
Conducting studies
Designing experiments
Recording observations
Using computers for
computation/simulation

Quantitative

Preparing statistical reports
Utilizing Statistical tests to predict
outcomes
Determining probabilities
Applying scientific concepts to problems
Interpreting results
Utilizing laboratory equipment

Analysis

Evaluating effects of phenomena
Making projects from data
Examining components of problems/ideas
Reasoning logically
Categorizing data

Graduate Schools Alumnae have Attended

Georgetown University
VCU School of Dentistry
Vanderbilt University

Auburn University
University of Texas

Associations related to the Biology Major

American Institute of Biological Sciences
Botanical Society of America
National Science Foundation
Student Conservation Association

Consortium of Aquariums, Universities, & Zoos
Environmental Careers Association
Women's Aquatic Network
National Science Teachers Association

Additional Sources of Information:

Career Development Center
West Hall 434-947-8116
www.randolphcollege.edu/cdc/