



RANDOLPH COLLEGE

Founded as Randolph-Macon Woman's College in 1891

Chemistry

Through lectures, laboratory work, research, and seminars, the program of the Department of Chemistry provides students with a basic knowledge and conceptual understanding of matter: its structure and properties and the nature, energetics, and dynamics of its transformations. Chemistry majors become equipped with the theoretical knowledge and practical skills needed to perform careful, systematic analysis. The creative and analytical skills developed in the laboratory are readily applied to a variety of real-world contexts. Chemistry majors learn to solve practical problems as well as research questions in diverse sectors such as public and private research, education, and environmental careers.

Career Options for the Chemistry Undergraduate

Government

Safety Inspector
County Health Dept. Inspector
Water Works Supervisor
FDA Inspector
Wastewater Treatment System Supervisor
EPA Officer
OSHA Enforcement Agent
*Chemist
*Agronomist

Medicine and Health

Environmental Risk Assessor
Food Scientist
Radiation Health Specialist
*Toxicologist
*Pharmacist
*Pathologist
*Nurse/ Anesthetist
*Medical Examiner
*Serologist
*Dentist
*Life Scientist
*Primary Care Physician

Industry

Application Chemist
Industrial Hygienist
Textile Dyes Analyst
Environmental Compliance Officer
Analytical Chemist
Chemical Sales Representative
*Certified Hazardous Materials Manager
*Pharmaceutical Research Chemist
*Chemical Information Specialist
* Research Scientist
*Polymer Chemist
*Patent Lawyer
*Chemical Engineer

Education

Science Teacher
Lab Manager
Technical Writer
Science Education Program Coordinator
Science Editor
*Professor

**Denotes Careers that may require a Graduate Degree*

Job Outlook for this field

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

Randolph Internship Opportunities

National Cancer Institute
Barr Labs
Bio-Ethical Services of VA
Audubon Society

INC Research, Inc.
Leukemia & Lymphoma Society
Lynchburg General Hospital
Institute for Humane Studies

International Center for
Research on Women
Marine Science Internships

Employers of Alumnae

Department of Medicinal Chemistry
Children's Research Institute
Centra Health
Central Virginia Laboratories

Fund for Public Interest Research
Carnegie Research
Medical University of South Carolina
National Oceanic & Atmospheric Administration

Liberal Arts Skills

Analysis

Developing theories
Clarifying problems
Identifying relationships
Testing hypothesis
Analyzing data
Summarizing research results
Evaluating data
Attending to details
Applying logic to problems
Perceiving patterns and structures
Reasoning by analogy

Communication

Writing for technical/non-technical audience
Designing charts and graphs, reporting data
Informing, providing explanations
Using laboratory equipment
Reporting conclusions orally and in writing

Investigation

Asking questions
Remaining objective
Gathering information
Designing experiments
Utilizing formulas
Applying knowledge
Observing carefully
Reviewing relevant data
Applying concepts

Technical

Processing data
Solving quantitative problems
Calculating
Tabulating data
Sampling for surveys
Maintaining precision and accuracy

Graduate Schools Alumnae have Attended

University of Southern California
Perdue University
Tufts University

Auburn University
University of North Carolina
University of Texas

Associations related to the Chemistry Major

American Chemical Society
Materials Research Society

American Institute of Chemical Engineers
Council for Chemical Research

Additional Sources of Information:

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