Chemistry, a vital component of the liberal arts curriculum, is an integral part of modern life from the substances we use like food, fuels, plastics, and pharmaceuticals to the processes used in important industries such as power plants, medical diagnostics, and manufacturing. Chemists use the scientific method in their pursuit to understand the physical and chemical properties of matter. In today’s highly technological age, all students benefit from exposure to scientific education.

THE PROGRAM
The chemistry department provides a learning environment for students to engage in the study of empirical principles; to develop analytical and problem-solving skills; to acquire the laboratory skills necessary to design, perform, and evaluate experiments; and to become skilled at organization, evaluation, and presentation of the concepts of chemistry. The program accommodates chemistry and other science majors, pre-med/pre-vet students and students planning to pursue health and allied health professions, as well as students wishing to teach chemistry at the secondary level.

THE MAJOR
A student majoring in chemistry at Virginia Wesleyan is required to complete a minimum of 64 hours in specified coursework, in addition to the fulfillment of the general studies requirements. All of the chemistry courses are taught by experienced faculty members with diverse backgrounds who stress critical thinking and a liberal arts perspective. Students gain knowledge of chemical analysis, synthesis, and theory while acquiring competence in laboratory techniques, the use of chemical instrumentation, computer skills, written and oral communication, and effective use of the professional literature. Students are encouraged to approach the chemical sciences from quantitative, descriptive and historical perspectives, to experience them within the context of the physical and life sciences, and to make connections to the world around them.

THE COURSES

INTERNSHIPS/UNDERGRADUATE RESEARCH
Students majoring in chemistry are offered the opportunity to conduct original scientific research in an area of interest. They work closely with one or more members of the natural science faculty to develop and conduct a research project, then present their findings orally during the semester’s undergraduate research symposium and as a formal research paper. Students are encouraged to present their findings at a conference. Students will coordinate internship placement with their supervising faculty member in their junior or senior year. Internships are an intensive study of a specific field of science through an on-site field experience with hands-on learning opportunities that are relevant to the chosen site.

BEYOND THE CLASSROOM
Successful completion of the program will enable motivated students to pursue successful careers as physicians, nurses, veterinarians, chemists, environmental researchers, policymakers, public health professionals, scientific journalists, and educators. Careers may require additional study in a graduate school or professional school program.

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