

CHARLENE RENEE BRECEVIC

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EDUCATION

University of Colorado Colorado Springs
Bachelor of Science in Biochemistry, Bachelor of Arts in Philosophy
Anticipated Graduation: December, 2013 GPA: 3.89

RELEVANT COURSEWORK

General Chemistry I and II (with labs)	Biochemistry I and II (with lab)
Organic Chemistry I and II (with labs)	Bioinorganic Chemistry
Analytical Chemistry (with lab)	Physics I, II, and III (with labs)
Physical Chemistry I and II (with lab)	Calculus I and II

SKILLS

High-Performance Liquid Chromatography	Spectrophotometry	Solid-Phase Extraction
Gas-Chromatography Mass Spectrometry	Capillary Electrophoresis	Computer Data Analysis
Nuclear Magnetic Resonance Spectroscopy		

WORK EXPERIENCE

Laboratory Instructor – University of Colorado Colorado Springs, CO. Responsible for instructing students in General and Organic Chemistry Laboratory classes at the University of Colorado Colorado Springs. Responsibilities include presenting ten to fifteen minute lectures at the beginning of class, overseeing the execution of all experiments, providing procedural guidance when students encounter problems, and the assessment of laboratory write ups and reports. (August 2013 – Present)

Chemical Technician - Qualtek Manufacturing, Colorado Springs, CO. Titrated solutions from various chemical baths and corrected concentrations by performing additions or decants. The pH values and specific gravities of chemical baths were determined and corrected if out of specification. In addition, chrome and nickel concentrations in outgoing wastewater were monitored on a weekly basis. Maintained an inventory of all chemicals in the department including chemical barrels and in-lab reagents. (August 2011 – August 2013)

RESEARCH EXPERIENCE

Biochemistry Research Student - University of Colorado, Colorado Springs. Analyzed binding energies of hexokinase I by means of computational chemistry software including DOCK 6, UCSF Chimera, Gaussian, and Molaris. Also carried out enzyme assays using UV-vis spectroscopy analysis to determine binding energies for hexokinase, then compared the energies to the computational results. These results were presented to and reviewed by a group of five fellow students at the completion of the experiment. (January 2012 – August 2012)

Bioanalytical Research Student - University of Colorado, Colorado Springs. Performed buffer preparations and solid phase extractions of human urine and artificial urine samples used to determine neurotransmitter concentrations. The extracted solutions were reconstituted and analyzed using capillary electrophoresis. Collaborations with other team members were carried out weekly. (May 2012 – August 2013)

ACTIVITIES AND HONORS

International Baccalaureate Diploma Program Graduate
Alpha Lambda Delta Society
National Society of Leadership and Success

References available upon request.