

Chemistry - Environmental Chemistry

What can I do with this major?



Related Career Titles

Search for potential careers/jobs with these position titles.

- Environmental Activist
- Environmental Consultant
- Agricultural Agent
- Environmental Scientist
- Biochemist
- Ecologist
- Environmental Lawyer
- Environmental Regulator
- Chemical Engineer
- Toxicologist
- Waste Management Technician
- Soil Scientist
- Pollution Engineer
- Range Manager

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Chemistry Club, UHD group*
- ✓ *Center for Urban Agriculture & Sustainability, UHD*
- ✓ *American Chemical Society*
- ✓ *Texas Association of Environmental Professionals*

Explore Career Specific Websites

www.acs.org | www.environmentalscience.org/ | www.aacc.org/ | www.setac.org/ | www.asm.org
www.sustainabilitydegrees.com | www.taep.org | www.usajobs.gov

Graduate School Considerations

*Programs not offered at UHD

Master of Science in Data Analytics	Master of Science in Environmental Science*	Master of Science in Biochemistry*
Master of Business Administration	Master of Science in Chemical Engineering*	Master of Science in Chemistry*
Master of Science in Technical Communication	Master of Science in Microbiology*	Juris Doctor (Law)*

Community Partnerships

Research local organizations offer field experiences to students pursuing an Environmental Chemistry degree.

Memorial Hermann	Bayou Land Conservancy	EDP Renewables	RiceTec	Houston Zoo
Houston Methodist Hospital	City of Houston, Health & Human Services		UT Medical Branch Galveston	
UT MD Anderson	Baylor College of Medicine	Houston Renewable Energy Group	Mad Science of Houston	

What is B.S. in Chemistry with Environmental Chemistry?

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The Bachelor of Science in Chemistry with a concentration in Environmental Chemistry is particularly appropriate for students' interested working in the chemistry industry, state regulatory agencies involved in environmental monitoring, as well as graduate studies in chemistry and environmental sciences. Topics that are of interest to this major are radioactivity, carbon dioxide levels, endangered species and toxic chemicals. Some of the courses included in this area are organic chemistry, physical chemistry, geology, quantitative analysis and biochemistry.

Interested in discussing your career path possibilities?

Visit S-402 or

Call 713-221-8980

The [Career Development Center](#)

Waldo Black

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SUMMARY

Dynamic Senior Chemistry major with significant laboratory and research skills. Dependable and organized with the ability to work independently in any lab setting. Strong interest in environmental chemistry.

EDUCATION

Bachelor of Science in Chemistry

May 2016

University of Houston-Downtown, Houston, TX

GPA: 3.7

Awards: Scholar's Academy Scholarship Recipient

RELEVANT COURSEWORK

Analytical Chemistry I and II

- Explored impact of chemical processes on environmental hazards, deep sea 'black smoker' vents, early detection of cancer, high-speed DNA sequencing, bio-and chemical warfare agents and ultra-microfabricated sensors

LABORATORY SKILLS

Wet Chemistry, GC (Gas Chromatography), TOC (Total Organic Carbon) Manual Titration, Reagent Preparation, UV-Vis Spectroscopy, Extractions, DHA analysis, Densitometer, Houston Atlas, Antek Sulfur, Metals by Atomic Absorption, Statistical Quality Control, Micro-coulometer, Analytic Balance, Hydrometer, FTIR, Hunter Color, GC-Low Ox, GC-MS, ICP, ICP-MS, Head-space GC

RESEARCH

Chemistry Department Research Assistant

January 2015-May 2016

University of Houston-Downtown, Houston, TX

- Research kinetics of attaching metalloporphyrins to self-assembled monolayers on gold electrodes
- Perform electrochemistry processes on the monolayers to improve electrical conductivity

PRESENTATIONS

Black, Waldo. "Kinetics of Attaching Metalloporphyrins to Self-assembled Monolayers on Gold Electrodes." University of Houston-Downtown Student Research Conference, Houston, TX. 21 April 2015.
April 2015

RELATED EXPERIENCE

Intern

May 2015-August 2015

Texas Energy Group, Houston, TX

- Gathered green power purchasing data from Phoenix metropolitan utilities and compiled report
- Updated website and social media outlets to notify others of organization's mission and events
- Devised a renewable energy fact sheet which included information on renewable technologies, environmental benefits, economic impacts, and consumer education issues

Intern

May 2014-August 2014

Shell Oil Corp., Houston, TX

- Collaborated with a team to develop an expanded testing method on the DC Arc Optical Emission Spectrometer to measure trace metal impurities in molybdenum metal
- Participated in the installation, operation, and maintenance of chemistry lab equipment and duties
- Installed and operated a wide variety of laboratory equipment including NMR and high-resolution lasers

TECHNICAL SKILLS

Proficient in SPSS, DC Arc Optical Emission Microsoft (MS) Word, Excel, PowerPoint