

# Chemistry – Forensic Science

What can I do with this major?



## Related Career Titles

Search for potential careers/jobs with these position titles.

- Forensic Scientist
- Forensics Science Technicians
- Lead Forensic Specialist
- Drug Unit Forensic Scientist
- Forensic Laboratory Assistant
- Forensic Toxicologist
- Criminalistics Forensic Scientist
- Forensic DNA Scientist
- Forensic Examiner
- Forensic Evidence Technician
- Forensic Anthropologist
- Forensic Biostatistician
- Forensic Pathologist
- Forensic Dentist Technician

## Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Chemistry Club, UHD group*
- ✓ *American Chemical Society*
- ✓ *Houston Forensic Science Center*
- ✓ *Harris County Institute of Forensic Sciences*
- ✓ *American Academy of Forensic Science*

## Explore Career Specific Websites

[www.acs.org](http://www.acs.org) | [www.aafs.org](http://www.aafs.org) | [www.aacc.org/](http://www.aacc.org/) | [www.setac.org/](http://www.setac.org/) | [www.awis.org/](http://www.awis.org/) | [www.dea.gov/careers/forensic-sciences.shtml](http://www.dea.gov/careers/forensic-sciences.shtml) | [www.chemjobs.net/](http://www.chemjobs.net/) | [www.chemistryjobs.com](http://www.chemistryjobs.com) | [www.houstonforensicscience.org/](http://www.houstonforensicscience.org/) | [www.harriscountytexas.gov/ifs/educational.aspx](http://www.harriscountytexas.gov/ifs/educational.aspx) | [www.criminalistics.com/](http://www.criminalistics.com/)

## Graduate School Considerations

\*Programs not offered at UHD

Master of Science in Data Analytics

Master of Science in Forensic Science\*

Master of Science in Biochemistry\*

Master of Business Administration

Master of Science in Chemistry\*

Master of Science in Forensic Analysis\*

Master of Science in Technical Communication

## Community Partnerships

Research local organizations offer field experiences to students pursuing a Chemistry with Forensic Science degree.

Houston Forensic Science Center

Harris County Institute for Forensic Science

## What is B.S. in Chemistry with Forensic Science?



The Bachelor of Science in Chemistry with a concentration in Forensic Science is particularly appropriate for students interested in working in criminal justice laboratories, legal and paralegal firms, as well as graduate studies in chemistry, forensic science, anthropology or archaeology. Some of the courses included in this area are organic chemistry, physical chemistry, quantitative analysis and biochemistry.

## Interested in discussing your career path possibilities?

Visit S-402 or Call  
713-221-8980

The [Career Development Center](#)

# Wanda Black

Houston, TX ▪ 252-255-4837 ▪ wblack@email.com

## *Forensic Chemist*

### SUMMARY

Highly organized college senior pursuing a degree in Chemistry with a concentration in Forensics. Passionate about discovering and interpreting data. Resourceful and detail-oriented; skilled problem-solver and multi-tasker.

### EDUCATION

#### Bachelor of Science in Chemistry Candidate

May 2020

University of Houston-Downtown, Houston, TX

GPA: 3.7

Awards: Scholar's Academy Scholarship Recipient

### 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

### 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 ultramicrofabricated sensors

### 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, Wanda. "Kinetics of Attaching Metalloporphyrins to Self-assembled Monolayers on Gold Electrodes." University of Houston-Downtown Student Research Conference, Houston, TX. 21 April 2015.  
April 2018

### RELATED EXPERIENCE

#### Intern

May 2017-August 2019

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

Mary 2015-August 2016

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 AND COMPUTER SKILLS

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