

Chemistry- Biochemistry

What can I do with this major?



Related Career Titles

Search for potential careers/jobs with these position titles.

- Biochemist
- Microbiologist
- Pharmacy Technician
- Chemical Laboratory Technician
- Quality Control Chemist
- Biotechnology Research Associate
- Research Scientist
- Research Technician
- Chemist
- Analytical Chemist
- Associate Research Scientist
- Biology Teacher (K-12)

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Chemistry Club, UHD group*
- ✓ *American Chemical Society*
- ✓ *American Medical Students Association, UHD group*
- ✓ *Health Professions Organization, UHD group*
- ✓ *National Science Teachers Association*

Explore Career Specific Websites

www.acs.org | www.asbmb.org/ | www.asm.org | www.ama-assn.org
www.adea.org/ | www.aacc.org/ | www.aamc.org/ | www.setac.org/
www.aacp.org | www.aibs.org/careers | www.usajobs.gov | www.nsta.org/

Graduate School Considerations

*Programs not offered at UHD

Master of Science in Data Analytics
 Master of Business Administration
 Master of Arts in Teaching
 Master of Science in Biochemistry*

Doctor of Medicine*
 Doctor of Dentistry*
 Doctor of Pharmacy*

Master of Science in Chemistry*
 Master of Public Health*
 Master of Science in Microbiology*

Community Partnerships

Research local organizations offer field experiences to students pursuing a Biochemistry degree.

Memorial Hermann	Texas Children's	UT MD Anderson	RiceTec	Houston Zoo
Houston Methodist Hospital	City of Houston, Health & Human Services		UT Medical Branch Galveston	
BP	Baylor College of Medicine	Lockheed Martin	Mad Science of Houston	

What is a B.S. in Chemistry with Biochemistry?

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The Bachelor of Science in Chemistry with a concentration in Biochemistry degree is particularly appropriate for students interested in the following areas: dentistry, medicine and related fields that require post-graduate study.

Some of the courses included in this area are biochemistry, organic chemistry, physical chemistry, and quantitative analysis. The courses specified for this degree are consistent with those suggested by the Committee on Professional Training of the American Chemical Society for a Bachelor of Science in Chemistry with a special focus on biochemistry.

Interested in discussing your career path possibilities?

Visit S-402 or Call
713-221-8980

The [Career Development Center](#)

Wesley Black

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SUMMARY

Sustainability-conscious, outgoing Chemistry student with excellent laboratory skills. Strong communicator and leader with a passion for environmental research. Extremely conscientious and work hard to get things done right the first time.

LABORATORY SKILLS

Organic synthesis, atmosphere sensitive reactions (glove box), ionic exchange columns, purification methods, titrations and wet chemistry, filtration methods, distillation and fractional distillation, crystallization for XRD measurements, liquid-liquid extraction, rotary evaporation, metathesis, salting out.

EDUCATION

University of Houston-Downtown, Houston, TX

Bachelor of Science in Chemistry with concentration in Biochemistry

May 2018

Minor: Physics

GPA: 3.7

Honors: Dean's List (Fall 2015, Spring 2016)

Welch Foundation Scholarship for Student Researchers (2013 – 2015)

Awards: *The Excellence in Chemistry Award* (2015-2016 academic year)

The Excellence in General Physics Award (2015-2016 academic year)

RESEARCH

Chemistry Department Research Assistant

Jan.2015-Present

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
- Synthesized research findings into 10-page paper to pursue publication

PRESENTATIONS

Black, Walter. "Kinetics of Attaching Metalloporphyrins to Self-assembled Monolayers on Gold Electrodes," UHD Student Research Conference, University of Houston-Downtown, Houston, Texas 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

ADDITIONAL SKILLS

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