

Biology – Molecular & Cellular

What can I do with this major?



Search for potential careers/jobs in your field with these position titles.

- Molecular Biologist
- Cellular Biologist
- Laboratory Technician
- Biology Teacher (secondary school level)
- Research Specialist
- Zoologist
- Dental Hygienist
- Dietician Nurse
- Mortician
- Nutritionist
- Radiology Technician

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *American Medical Students Association, UHD group*
- ✓ *The Darwin and Leeuwenhoek Society, UHD branch of American Society for Microbiology (ASM)*
- ✓ *Environmental Club, UHD group*
- ✓ *Health Professions Organization, UHD group*

Explore Career Specific Websites

www.aibs.org/careers | www.asm.org | www.ama-assn.org | www.genome.gov | www.aafs.org | www.the-aps.org
www.aacp.org | www.sustainabilitydegrees.com | www.usajobs.gov | www.biologyjobs.com | www.aacp.org

Graduate School Considerations

*Programs not offered at UHD

- | | |
|--------------------------------------------------|--------------------------------------|
| Master of Arts in Teaching | Master of Science in Biotechnology* |
| Master of Science in Data Analytics | Master of Science in Bioinformatics* |
| Master of Business Administration | Master of Science in Biochemistry* |
| Master of Science in Molecular and Cell Biology* | Doctor of Medicine* |
| Master of Science in Genetics and Genomics* | Doctor of Dentistry* |

Community Partnerships

Research local organizations offering field experiences to students pursuing a Biology degree.

Memorial Hermann	BP	Texas Children's	UT Medical Branch	RiceTec	Houston Zoo
Houston Methodist Hospital	City of Houston, Health & Human Services		Houston Renewable Energy Group		
MD Anderson	Baylor College of Medicine	Lockheed Martin	Mad Science of Houston	Anheuser-Busch	
Bayou Land Conservancy	Koala Sports Medicine Center		Harris County Institute for Forensic Sciences		

What is Biology with Concentration in Molecular and Cellular Biology?

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The Bachelor of Science degree in Biology with concentration in Molecular and Cellular biology is designed to meet the needs of those students interested in medicine, dentistry, and related career fields that require post-graduate study, public health, graduate work in biological or biomedical sciences, and science education.

Interested in discussing your career path possibilities?

Visit S-402 or
Call 713-221-8980
The [Career Development Center](#)

EDWINA GATOR

Houston Texas | 346-216-7789 | GatorE8@gator.edu

PROFILE

Diligent college sophomore pursuing a Biology degree with an interest in neuroscience. Excellent problem-solving, communication and leadership skills.

EDUCATION

University of Houston- Downtown, Houston, Texas

Bachelor of Science in Biology with Concentration in Molecular and Cellular Biology May 2020

GPA: 3.97

Honors: Dean's List

Awards: Scholars Academy Scholarship (Aug 2016 – present); Good Neighbor Scholarship (Aug 2017- May 2018)

Activities: National Society of Collegiate Scholars, Member (Aug 2017 – Present); Scholars Academy, Member (Aug 2016 - Present)

Relevant Courses: Physics, Organic Chemistry (Spring 2018), Microbiology (Spring 2018)

LABORATORY SKILLS

Electrochemical analyzer machine; Proficient in interpreting Current Voltage graphs; Chemical and electrochemical films preparation; Light Microscope; Thin Layer Chromatography; Data Processing

RESEARCH

University of Houston- Downtown, Houston, TX

Jan 2017 – Dec 2017

Preparation of Cobalt Hydroxide Film Modified Electrode for Battery and Sensor Applications Researcher

- Prepared Cobalt Hydroxide film using various methods and analyzed it using constant voltage graphs obtained through an Electrochemical Analyzer

RESEARCH PRESENTATIONS

Gator, Edwina.” The Preparation of Cobalt Hydroxide Modified Electrode for Battery and Sensor Applications,” RICE University’s Gulf Coast Undergraduate Research Symposium, Houston, TX. Nov 2017. PowerPoint presentation

Gator, Edwina. “The Preparation of Cobalt Hydroxide Modified Electrode for Battery and Sensor Applications” Graduate School and Internship Fair, University of Houston-Downtown, Houston, TX. Oct. 2017. Poster presentation

TUTORING AND MENTORING EXPERIENCES

University of Houston- Downtown, Houston, Texas

Biology Supplemental Instruction Leader Aug 2017 - Present

- Develop and execute creative study sessions to aid students in synthesizing their knowledge

Peer Led Team Learning (PLTL) Workshop Leader and Math Tutor Aug 2016 - present

- Lead workshops and motivate students to solve problems in Science and Mathematics

Scholars Academy Peer Mentor Aug 2017 - Present

- Communicate with peers and motivate them throughout their academic career

New Student Orientation Gator Crew Member Aug 2017

- Directed and encouraged 20-30 new freshmen students for four days as they learned about the University

COMMUNITY ENGAGEMENT

Stevenson Middle School, Houston, Texas

Nov 2016

- Educated 20 students on different opportunities available in STEM fields; coordinated experiment on DNA extraction

Marshall Middle School, Houston, Texas

Nov 2016

- Collaborated with 50 students in completing experiments and reports for their upcoming science fair