

Biological & Physical Sciences

What can I do with this major?



Search for potential careers/jobs with these position titles.

- Clinical Research Associate
- Clinical Research Coordinator
- Medical Technologist
- Natural Science Manager
- Forensic Scientist
- Environmental Specialist
- Data Analyst
- Hydrologist
- Secondary School Teacher
- Museum/Parks Educator
- Physician
- Dentist
- Optometrist
- Veterinarian
- Physical Therapist
- Physician Assistant
- Occupational Therapist
- Pharmacist
- Medical Research Assistant
- Public Health Specialist

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Chemistry Club, UHD group*
- ✓ *The Darwin and Leeuwenhoek Society, UHD branch of American Society for Microbiology (ASM)*
- ✓ *Environmental Club, UHD group*
- ✓ *Geology Club, UHD group*
- ✓ *Health Professions Organization, UHD group*
- ✓ *National Science Teachers Association*

Explore Career Specific Websites

www.aibs.org | www.greenjobs.org/ | www.acrpnet.org | www.aafs.org | www.the-aps.org | www.asm.org
www.usajobs.gov/StudentsAndGrads | <http://www.environmentalscience.org> | www.BiologyJobs.com

Graduate School Considerations

*Programs not offered at UHD

Master of Science in Data Analytics	Master of Science in Biology*	Master of Public Health*
Master of Arts in Teaching	Master of Science in Chemistry*	Master of Science in Geosciences*
Master of Science in Technical Communication	Master of Science in Physics*	Master of Science in Biotechnology
Master of Business Administration	Doctor of Pharmacy*	Master of Science Forensic Science*
Doctor of Medicine*	Doctor of Veterinarian Medicine*	
Doctor of Dentistry*	Juris Doctor (Law)*	

Community Partnerships

Research local organizations offering field experiences to students pursuing a Biological & Physical Sciences 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 Biological & Physical Sciences?

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The Bachelor of Science degree provides a broad-based curriculum in the liberal arts and the natural sciences designed to meet the career goals and interest of the student. This degree is especially appropriate for students interested in multidisciplinary areas such as environmental science, forensic science, medical technology, public health, etc., or for entry into a particular graduate program. Students interested in secondary science education may consider the degree plan with Emphasis in Teacher Certification.

Interested in discussing your career path possibilities?

Visit S-402 or
Call 713-221-8980

The Career Development Center

PROFILE

Motivated, bilingual and highly professional biology and physical science graduate with 8+ years in a lab setting. Adept knowledge of latest pharmaceutical advances and research. Outgoing and detail-oriented; proficient in professional team environments and proper allocation procedures.

EDUCATION

University of Houston – Downtown, Houston, TX

Bachelor of Science in Biological and Physical Science, May 2017

Lone Star College System – Montgomery College, Conroe, TX

Associate of Applied Science in Biotechnology, Cum Laude, May 2015

LABORATORY SKILLS

Gradient separation of whole blood, Cell culture and cryopreservation, DNA extraction and purification, Amplification of DNA by PCR, Mycoplasma testing, Endotoxin-Gel clot assay performance, Aseptic handling technique, Gram stain analysis, Sampling and slide preparation of fungal specimens, 14-day direct inoculation method and the membrane filtration method, agarose gel electrophoresis, medium and reagents preparation, column chromatography

RELEVANT RESEARCH

Diatoms, genetic mutations, bacteria, amino acids, bioinformatics.

- Isolated and purified MAP 19, a microtubule-associated protein, by employing different techniques such as dialysis, column chromatography, and gel electrophoresis.

RELEVANT EXPERIENCE

Opexa Therapeutics, Inc., The Woodlands, TX.

7/2008 - 12/2016

Quality Control Analyst

- Performed assays as related to the to the determination of method development, qualification and validation, Preventive maintenance and record keeping for the equipment used in the Quality Control laboratory
- Insured that the Quality Control laboratory was compliant with Current Good Laboratory Practices (cGLP) regulations – SOP and equipment documentation is complete and reviewed as required
- Evaluated facility trending for the environmental conditions in the manufacturing facility to ensure Current Good Manufacturing Practice (cGMP) compliance
- Responsible for assay performance, optimization and reporting for the testing of raw materials, in-process testing, and final product release testing
- Collaborated with Quality Assurance in auditing patient records and in-house analytical testing records

ADDITIONAL EXPERIENCE***Food Server***

El Burrito Mexican Restaurant, Cleveland, TX

1/2011 – present

- Deliver exceptional, fast and friendly service to promote customer relations
- Efficiently handle an average of \$2500 cash and credit transactions per day

ADDITIONAL SKILLS

Language: Fluent in Spanish (read, write, and speak)

Computer skills: Proficient in Microsoft Word (MS), Excel, PowerPoint, Outlook, and Visual Basics.