WE ARE....

- Educating future health professionals
- Preparing students for lifelong careers
- Leaders in education and research
- Expert, compassionate faculty and staff

...DEPARTMENT OF BIOLOGY





Department of BIOLOGY COLLEGE OF SCIENCE AND TECHNOLOGY





TSU Science Center Room 203-Z 713.313.7005

Website: bio.tsu.edu

Email: Biology@tsu.edu

Dr. Warren E. Williams, Interim Chair

MISSION

The mission of the Department of Biology is to allow students to be better informed about biological phenomena and processes as well as application of information and knowledge gained toward an improved understanding of man, society and the universe. The Department is charged with providing undergraduate students the appropriate background to pursue medical, biomedical, and other related careers. Preparation for advanced degrees and research programs are also stressed.

THE PROGRAM

As one of the largest instructional units in the College of Arts and Sciences, the Department of Biology offers courses in Biology (BIOL), the Bachelor of Science (B.S.) Degree in Biology, the Master of Science (M.S.) Degree in Biology, and a minor in Biology for students pursuing majors in other departments where the declaration of a minor is required. In addition, the Department of Biology serves as the academic unit overseeing Texas Southern University's Pre-Nursing Program, which is a non-degreed program designed to prepare students for admission into a Bachelor of Science (B.S.) Degree in Nursing degree program.

Only one undergraduate degree (the Bachelor of Science in Biology) is offered. Two tracks leading to this degree are possible for majors:

•Comprehensive Track •Pre-Health Professional Track

CAREERS IN BIOLOGY

Biology provides a foundation for a variety of careers. While studying biology is appropriate preparation for the study of medicine or other health-related professions, students should consider other careers as well. A list of related occupations including medicine and health-related professions that you may wish to further investigate are listed.

Agronomist, Biochemist, Biologist, Biophysicist, Biostatistician, Biotechnologist, Botanist, Consultant, Crop Physiologist, Cytotechnologist, Dentist [D.D.S], Development Asst., Ecologist, Embryologist, Entomologist, Environ., Fisheries Biologist, Flavor Chemist, Food & Drug Inspector, Forester, Forensic Biologist, Geneticist, Hospital Administrator, Industrial Hygienist, Lab Tech./Scientist, Lawyer, Lobbyist, Marine Biologist, Medical Illustrator, Medical Record Tech.. Medical Technician, Microbiologist, Mycologist, Naturalist, Nursing, Parasitologist, , Patent Specialist, Pathologist, Pest Control Inspector, Pharmaceutical Sales Rep., Pharmacologist, Physical Therapist, Physician [M.D.], Physician Assistant, Plant Geneticist, Podiatry, Public Health Assist., Quarantine Specialist, Quality Control Specialist, Research Assistant, School Teacher-Science, Scientific Librarian, Scientific Reporter, Sports Medicine, Technical Writer, Toxicologist, Transfer Agent (Funds), Veterinarian [D.V.M.], Wildlife Biologist, Zoo Assistant, Zoologist



FACULTY

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Abdel-Rahman, Fawzia	Olufemi, Shodimu-Emmanuel
Professor	Assistant Professor
B.Sc., University of Cairo, Egypt	B.S., M.S., Texas Southern University
M.S., Ph.D., University of California at	Ph.D., Howard University
Davis	
Fadulu, Sunday O.	Player, Audrey
Professor Emeritus	Assistant Professor
B.S, Oklahoma Baptist University M.S.,	B.S., University of North Texas
Ph. D., University of Oklahoma	Ph.D., Wright State University
Gardiner, Linda M.	Rosenzweig, Jason A.
Visiting Assistant Professor	Assistant Professor
B.S., Ph.D., Texas Southern University	B.S., Florida Atlantic University
	Ph.D., University of Miami (Miller School
	of Medicine)
Hillar, Marian	Shishodia, Shishir
Professor	Associate Professor
M.D., Ph.D., University Medical School at	B. S., Ranchi University, Ranchi, India.
Gdansk, Poland	M.S., Ph.D., Banaras Hindu University,
	Varanasi, India
Hollomon, Mario	Sodipe, Ayodotun
Visiting Assistant Professor	Assistant Professor
B.S., Prairie View A&M University	B.S., Ph.D., Texas Southern University
M.S., Ph.D., Texas Southern University	
Labora Dadata	Condenses Alexado
Jackson, Desirée Associate Professor	Sundaresan, Alamelu Associate Professor
B.S., State University of New York	B.Sc., Women's Christian College, Madras
College at Brockport	M.Sc, University of Pondicherry and The
Ph.D., Meharry Medical College	World Health
1 ii.D., Meliany Medical Conege	Organization, Geneva
	Ph.D., University of Texas Health Science
	Center, Houston
Maria I. Hardan	,
Miranda, Hector	Williams, Warren
Associate Professor	Associate Professor
B.S., M.S., University of the Philippines at	
Los Baos	Ph.D., University of Illinois
Ph.D., University of Cincinnati	

OUR PROGRAM

In pursuing the B.S. in Biology, students may select from the Comprehensive or the Pre-Health Professional curricula. The Comprehensive curriculum is designed to prepare students to enter the workforce or for additional study at the graduate level, while the Pre-Health Professional curriculum is intended to prepare students for professional schools (Medical, Dental, Veterinary, Optometry, Physical Therapy and etc.) upon graduation. Students should contact professional schools directly to ascertain specific admission requirements. Students should seek detailed advisement from their designated advisors when selecting a minor because the selection of a minor could impact the total number of credits required for graduation.

The Biology undergraduate curriculum at Texas Southern University is designed to provide a comprehensive general education in the natural sciences, humanities, and social sciences and a strong foundation in the principles of modern biology. Interested students must first gain admission to the University, must satisfy ASSET requirements, and remove deficiencies identified at the time of admission through the General University Academic Center (GUAC). Once admitted, students are each assigned an official faculty advisor who must approve their individual schedules of courses for each semester or term of enrollment.

For the minor in Biology, 21 semester credit hours are required through enrollment in the following courses: BIOL 131 (3 credits), BIOL 132 (3 credits), BIOL 231 Cell Biology (3 credits), BIOL 232 Developmental (3 credits), and 9 additional 300-level or 400-level BIOL credits. Although students are required to take BIOL 111 (1 credit) and BIOL 112 (1 credit) as co-requisites with BIOL 131 and BIOL 132, respectively, these 2 credits are not counted toward the completion of the minor in Biology.

The curriculum at Texas Southern University is designed so that students receive a broad exposure to important biological concepts in the core courses taken during the first two years. Students "must" complete these required core courses prior to registering for Biology courses within the Comprehensive or Pre-Health Professional curricula (see the Required Core Courses). This will allow students to gain the experience and perspective to make sound career decisions for advanced study during their junior and senior years. All Biology majors are required to pass an exit examination prior to conferral of their degree.



What is JAMP?

- •Provides services to support and encourage highly qualified, economically disadvantaged students pursuing a medical education.
- •Award undergraduate medical school scholarships.
- •Provide for the admission of those students who satisfy both academic and nonacademic requirements to at least one participating medical school.

What does a student accepted to JAMP receive?

- •A scholarship each semester beginning in the student's sophomore year of college.
- •A stipend to attend summer internships following student's freshman, sophomore, and junior years of college at one of the participation medical schools.
- •Mentoring and personal assistance to prepare for medical school while attending college.
- •Admission to a Texas medical school if all program requirements are met.
- •A scholarship to attend medical school.

Website: www.utsystem.edu/jamp

Detailed information on JAMP and the application process is available at www.utsystem.edu/jamp



Early Medical School Acceptance Program

The EMSAP Mission

The program is designed to provide a rigorous undergraduate educational experience to assure that students receive the academic preparation required to pursue a medical education. Upon acceptance to EMSAP, students also receive conditional acceptance to University of Texas Medical Branch. Final matriculation into UTMB is dependent upon successful completion of all EMSAP requirements and graduation from Texas Southern University.

Program Components

- •Successful completion of a baccalaureate degree within 4 years.
- •Academic enrichment courses and seminars to strengthen medical school preparation
- •Academic advising and mentoring from undergraduate advisors and faculty, staff and administrators at UTMB
- •Exposure to the clinical practice of medicine with UTMB clinicians
- •MCAT preparation course
- •Workshops for medical school admissions, personal statement, and interviewing skills
- •Students With Dual Hours

Students who have dual credit enrollment hours can apply to EMSAP; however, they will not be allowed to matriculate at UTMB until four years have elapsed from the date of their initial admission to EMSAP.

For more information about the JAMP/EMSAP Program CONTACT:

Dr. Shishir Shishodia
JAMP/EMSAP Faculty Director
Texas Southern University
Department of Biology
3100 Cleburne Street
Houston, TX 77004
Email:shishodias@tsu.edu
Office: 713-313-7912