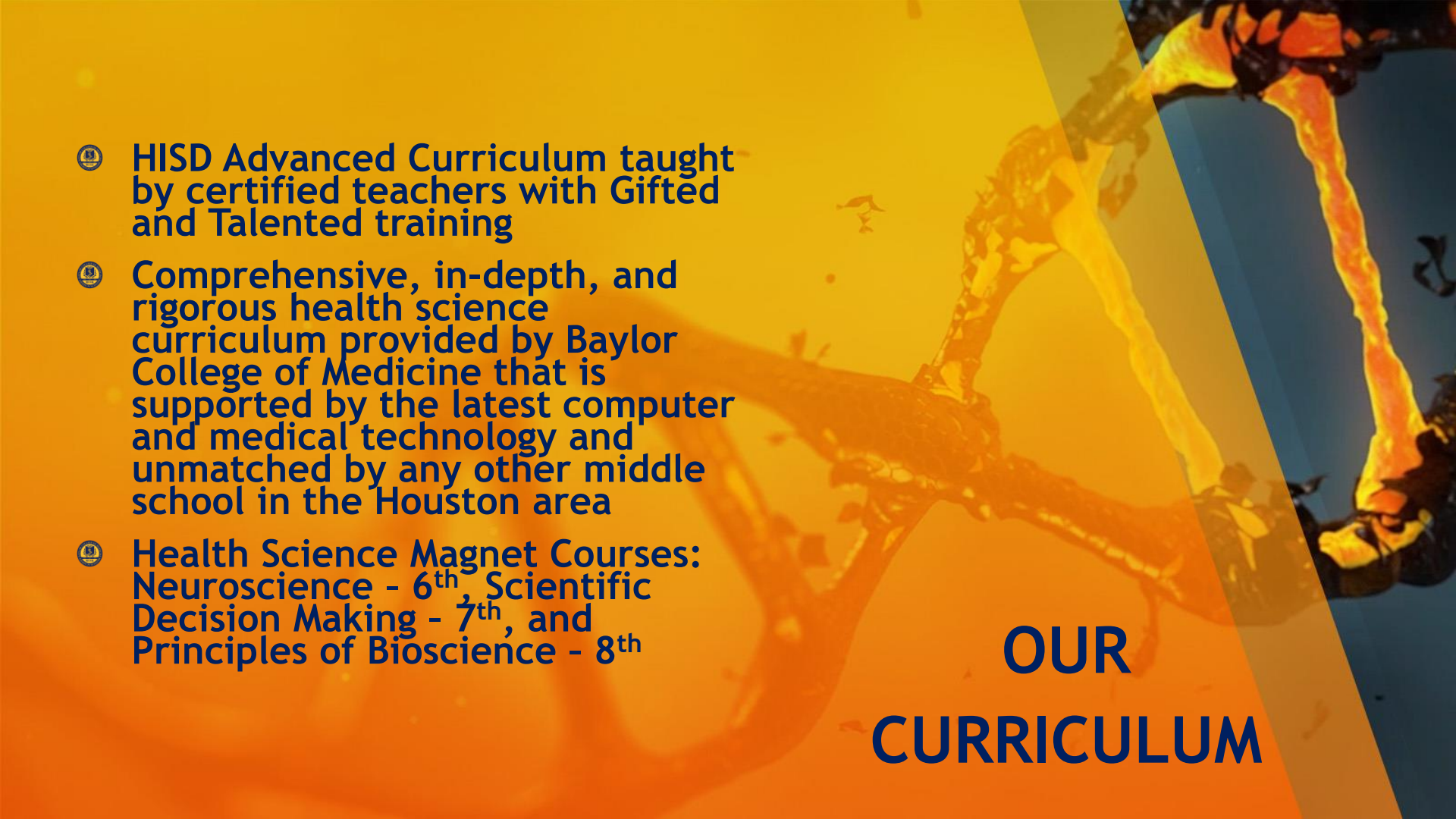




The background of the slide features a photograph of a person climbing a rope, overlaid with a semi-transparent orange filter. The person is positioned on the right side of the frame, with their body angled upwards. The rope is dark and textured. The sky in the background is a clear blue with some white clouds. The overall composition is dynamic and suggests themes of challenge, achievement, and progress.

Vision Statement

Every student will engage in a rigorous and integrative health science curriculum guiding them to make innovative 21st century contributions.

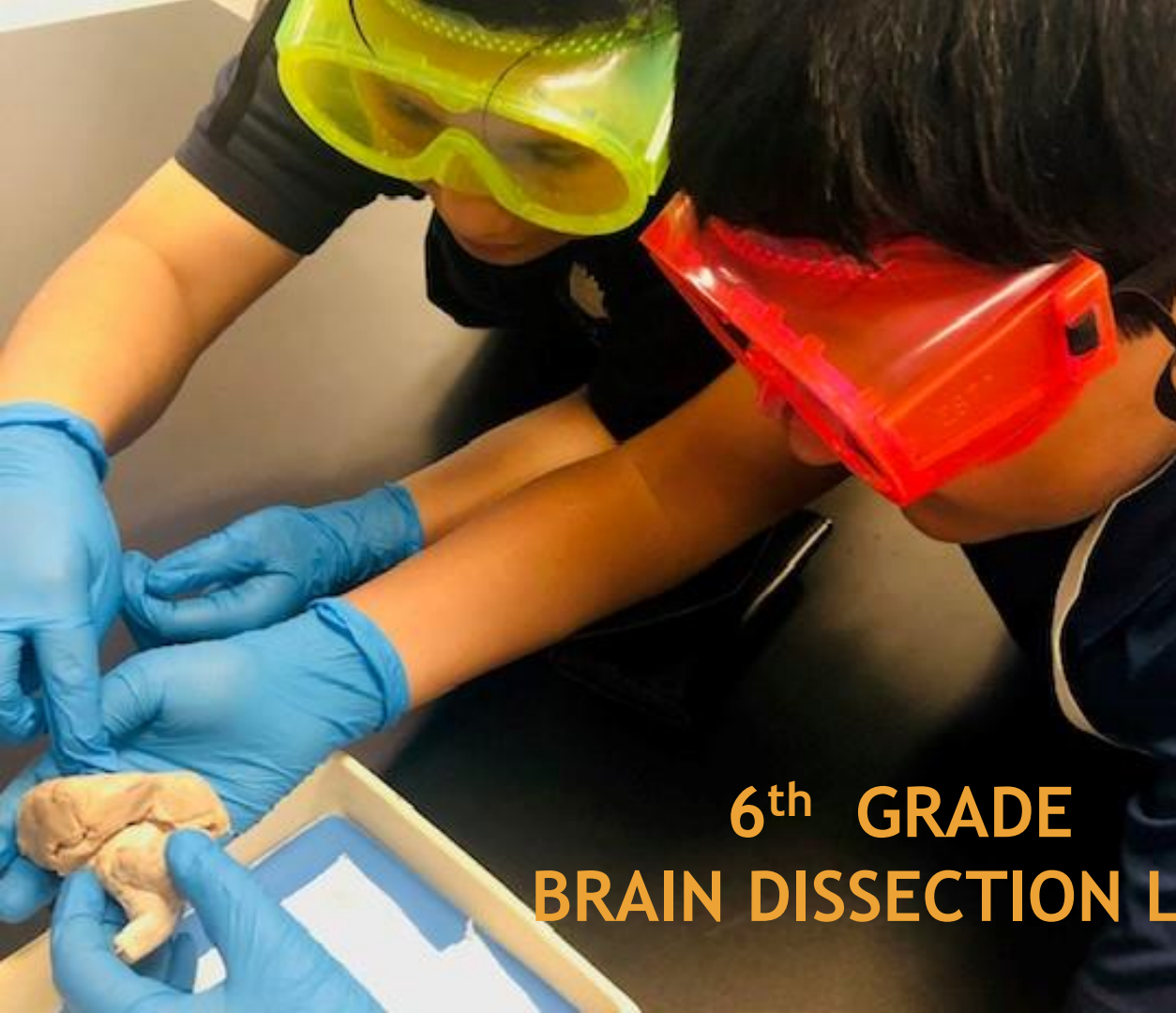
- 
- ⑬ HISD Advanced Curriculum taught by certified teachers with Gifted and Talented training
 - ⑬ Comprehensive, in-depth, and rigorous health science curriculum provided by Baylor College of Medicine that is supported by the latest computer and medical technology and unmatched by any other middle school in the Houston area
 - ⑬ Health Science Magnet Courses: Neuroscience - 6th, Scientific Decision Making - 7th, and Principles of Bioscience - 8th

OUR CURRICULUM

NEUROSCIENCE:

In 6th grade students take Neuroscience, the study of the brain and its function in an exciting time of groundbreaking discoveries in neuroscience and psychology. Students participate in brain modeling activities, dissection labs and projects, as well as classroom activities geared toward collaboration and exploration.





6th GRADE BRAIN DISSECTION LAB



7th Grade

SCIENTIFIC DECISION-MAKING:

In 7th grade, students take Scientific Decision-Making. Students will be exposed to scientific decision-making approaches as they are placed in the roles of scientists, healthcare providers and even persons with common and rare health problems. Through case-based examples, students will gain experience in scientific thinking, particularly framing questions, collecting information, analyzing data, considering choices, risks and trade-offs to , ultimately, making a solid evidence-based decision.



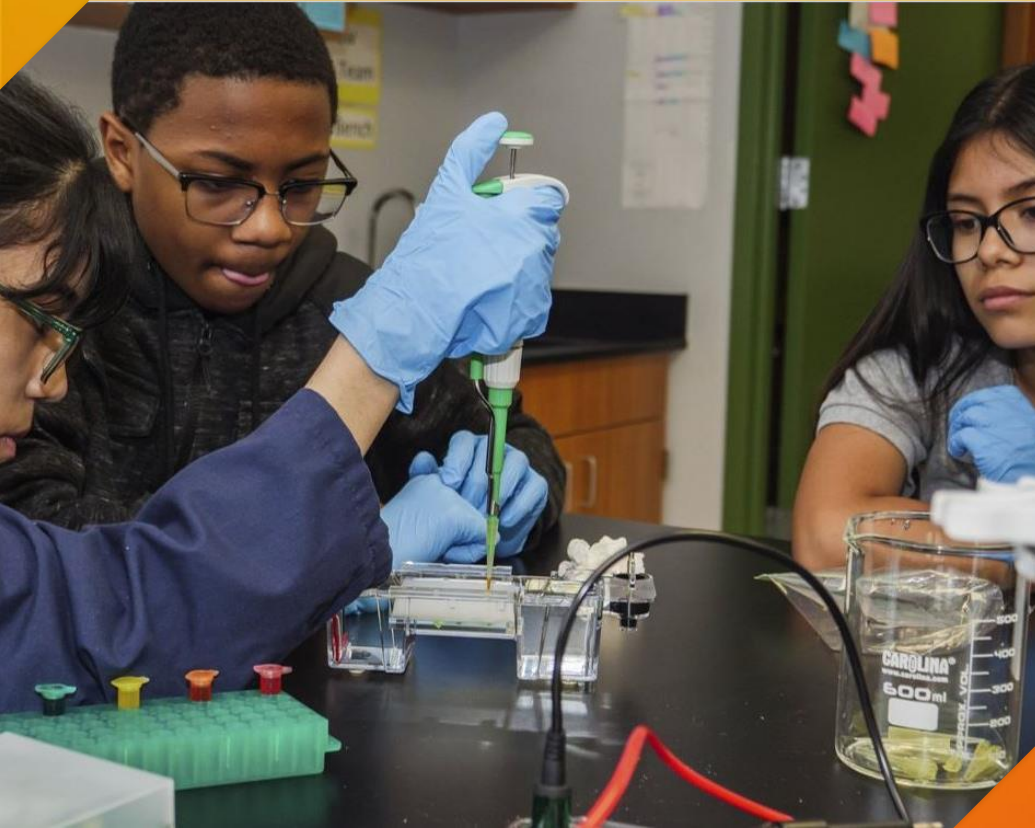
7th Grade

Scientific Decision-Making

Heart Dissection Lab and
Kidney Dissection Lab



8th Grade



PRINCIPLES OF BIOSCIENCE:

In 8th grade students take Principles of Bioscience, a course for high school CTE credit. Students will gain practical lab experience in the context of careers in bioscience. They will learn innovative and current technologies used in the biomedical field and use these technologies to analyze data from hands-on laboratory exercises, including nucleic acid isolation, recombinant DNA cloning, PCR, and ELISA. This course offers a strong preparation of high school Biology content and provides an overview of major concepts in the field of biotechnology.



We are the only middle school in the Houston area offering a Biotech Pathway. In 8th grade, students earn high school CTE credit and an invaluable exposure to Biology content from our Principles of Biomedicine course.




Paul Klotman
President of Baylor College of Medicine
Annual Visit

The background of the slide features a photograph of a person climbing a rope, overlaid with a semi-transparent orange filter. A solid blue diagonal stripe runs from the top right towards the bottom left, partially obscuring the orange filter and the climbing image.

Mission Statement

In order to prepare students for the careers of tomorrow, we will provide them with engaging health science experiences through cooperative learning and technological integration.



**At least once per month,
our students have the opportunity to
collaborate with doctors, scientists and
health care workers from BCM and other
health care institutions in our area.**



HEALTH SCIENCE CLUBS

Every student is expected to join a Health Science Club



Texas HOSA- Future Health Professionals Conference, 2019





HOSA TEXAS FINALISTS HEADING TO FLORIDA TO COMPETE IN HOSA NATIONALS

(Disney World, 2019)



HOSA NATIONALS



TEXAS STYLE





Technology Students Association



Students preparing for the fluid power
action challenge.



Technology Students Association

SECME Regional Competition
December, 2019



Brainstem Club
with
**Biotech Graduate
Students**
from
Rice University





Brainstem Club

Squid Dissection

H-SSTAT Fun Run benefitting the Alzheimer's Association



Health Science Students Taking Action
Today Fun Run, November, 2019

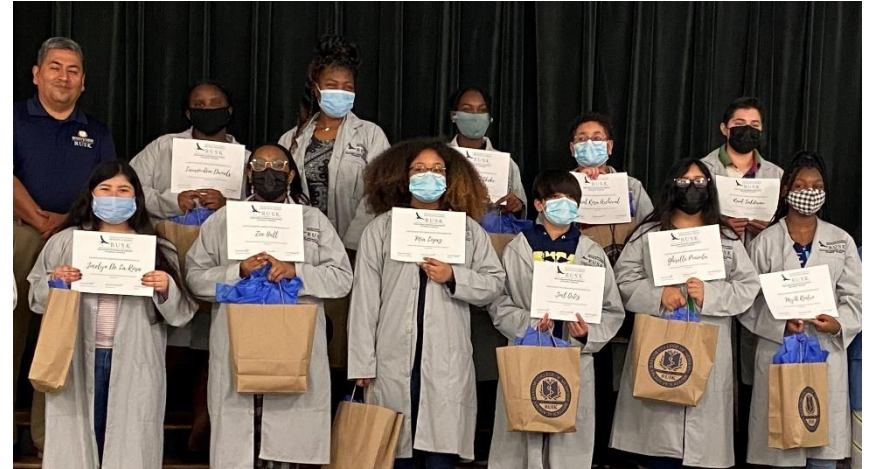


Opportunities For Students To Engage With Health Science Professionals

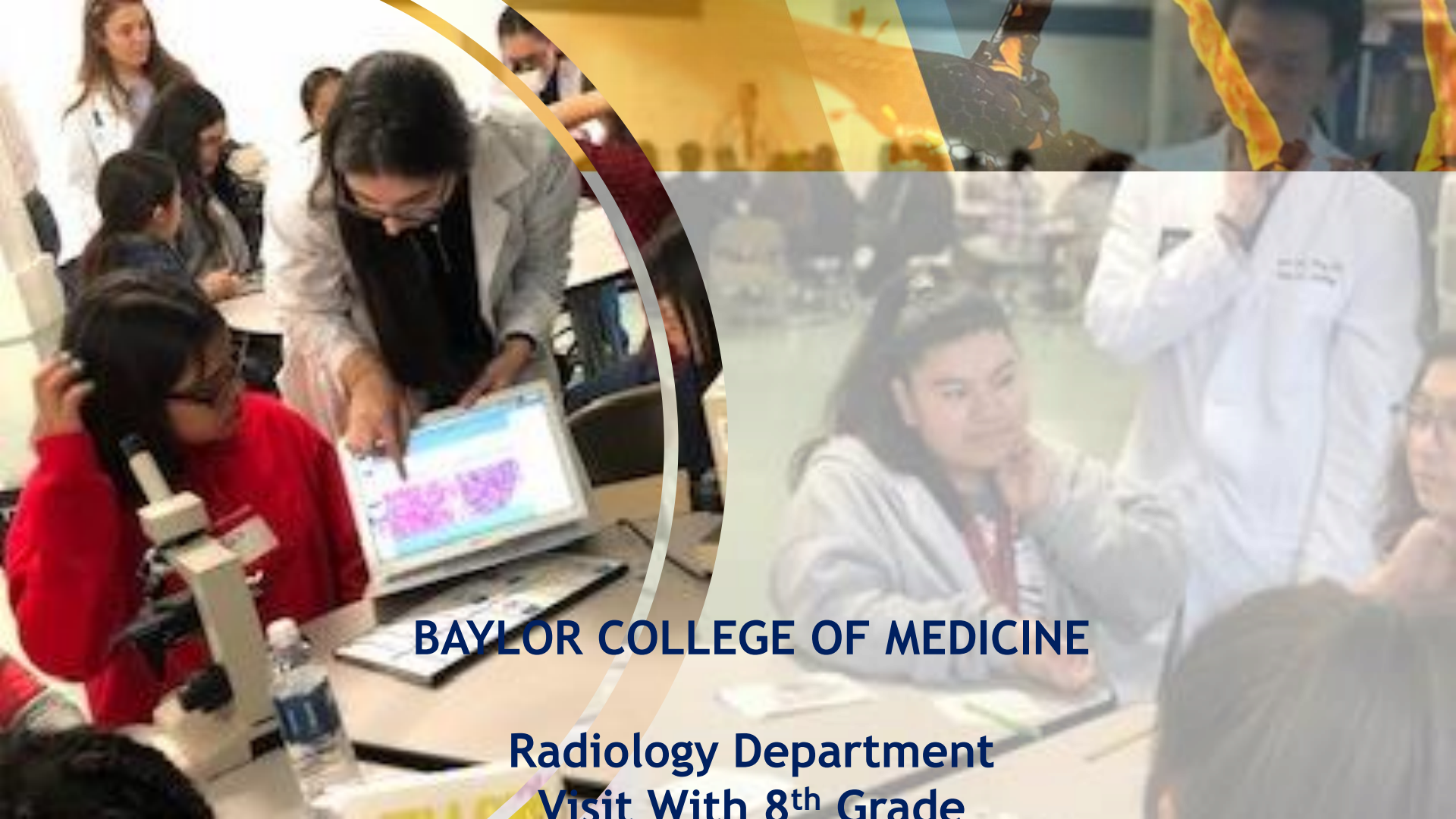
H-SOAR- Health Science Opportunities and Resources Internship Program



Learning Surgical Knots with
Dr. Nilson Salas from Baylor College of Medicine



Celebrating our Inaugural Intern Group upon
Completion of the Program
(missing a few interns)

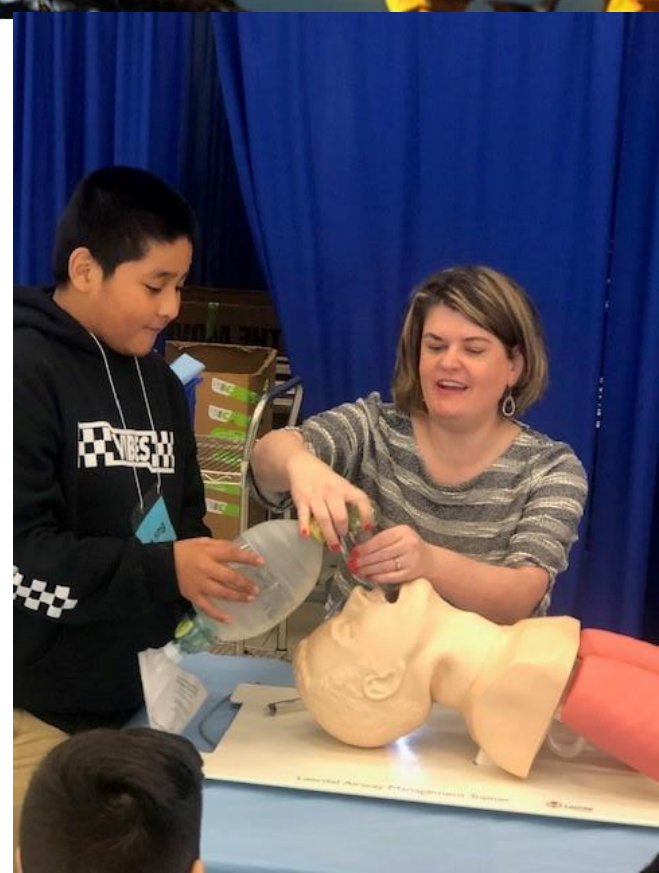


BAYLOR COLLEGE OF MEDICINE

**Radiology Department
Visit With 8th Grade**



6th Grade
Visit to
BAYLOR COLLEGE OF MEDICINE
For a Simulation Experience



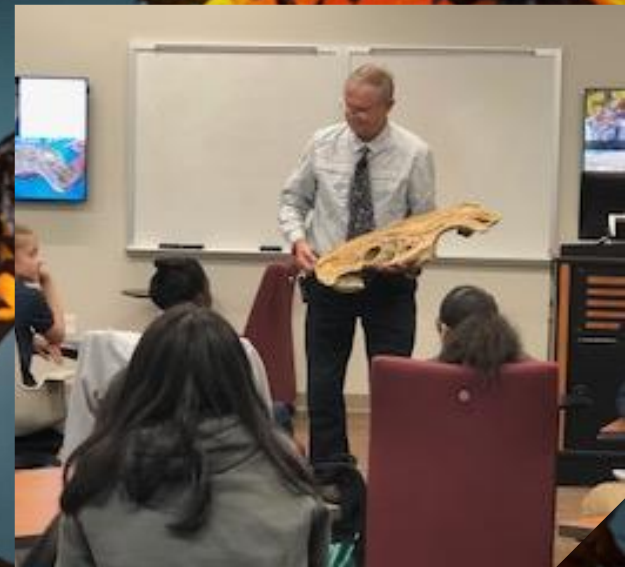


Chat and Chew With Guest Speaker, Dr. Inge Ford





Chat and Chew Guest Speaker, Dr. Lechauncy Woodard



Students Visit Texas A & M College of Veterinary Medicine and Biomedical Sciences



SCIENCE FAIR

Every student is expected to participate in Science Fair



Students have the opportunity to gain feedback and guidance from Scientists at Baylor College of Medicine on their Science Fair Projects during Saturdays with Scientists Events.

CHRISTIE MITCHELL BALLANTYNE, M.D.
PROFESSOR & VICE CHAIR OF RESEARCH
BAYLOR COLLEGE OF MEDICINE



Our students
interviewing scientists from
Baylor College of Medicine

Baylor College of Medicine's
Ask Me About My Research

CHERYL WALKER, PH.D.
DIRECTOR OF THE CENTER FOR PRECISION ENVIRONMENTAL HEALTH
BAYLOR COLLEGE OF MEDICINE



Pumps and Pipes Symposium Rice University



Students witnessed a live streaming of an open-heart surgery with the surgeon communicating with the symposium from the operating room.



Blue Coat Ceremony, 2017

In 7th grade, students are presented with their blue lab coats in a “Blue Coat” Ceremony. Faculty and trainees from BCM assist students as they don their new lab coats.



Blue Coat Ceremony, 2018



Blue Coat Ceremony, 2019

Leadership Opportunities





Student Ambassadors

National Junior Honor Society



**N J H S members raised \$250 to donate to
Texas Children's Hospital Autism Center**

**N J H S Students volunteering
at the
Autism Speaks Fun Run**





HEALTH FAIR HIGHLIGHTS, 2018



HEALTH FAIR HIGHLIGHTS, 2018



Students Demonstrating the Anatomage Table to Parents



Students Presenting Their Research with Lesson Activities to Elementary Students





Our teachers
and staff are
students of
Biotech, too.



Extra-Curricular Activities

- Robotics
- Brain Stem Club
- Guitar
- Basketball (boys and girls)
- Tennis
- Cheer
- Color Guard
- Softball
- Baseball
- Volleyball
- Soccer
- Cycling



Teachers and Staff receiving Health Science PD and CPR Certification

Anatomage Table Training

Teachers plan lessons for students to use this table to perform virtual dissections and to take an in-depth look inside the human body.





Teacher and Staff Professional Development at Baylor College of Medicine

Opportunities for Students at Baylor College of Medicine Biotech Academy at Rusk

Student - Health Care Professional Monthly Collaboration

- Chat and Chew
- Saturdays with Scientists
- Science Fair Kick-Off
- Friday Night Science
- Hackathon
- Field Trips
- Professional Outreach
- Student Volunteer Opportunities
- Student Ambassadors

EVERY student is Part of a Health Science Experience

- HOSA - HOSA Health Professionals
- TSA- Technology Students Association
- HLC- Health Leadership Council
- H-SSTAT- Health Science Students Taking Action Today
- BrainSTEM
- Student Internship Program

Why You Should Choose Baylor College of Medicine Biotech Academy at Rusk

- ③ Exposure to a Variety of Health Science Careers
 - ③ A Rigorous Curriculum
 - ③ Success for Students of ALL Levels of Ability
- ③ A Well-Rounded Program Including Opportunities for Volunteering and Giving
 - ③ Multiple Health Science Clubs
 - ③ A Fully Equipped Biotech Lab
- ③ State of the Art Technology, such as, the Anatomage Table
- ③ Invaluable Support from our Medical and Community Partners
 - ③ 2-million-dollar MSAP Grant Supporting Our Program

- 
- Apply at hisdchoice.com
 - Choose **BCM Biotech Academy at Rusk**
 - Questions- Contact sbutler5@houstonisd.org or 713-226-4543
 - Follow us on Twitter - @BCMBiotechRusk
 - Follow us on Facebook - <https://www.facebook.com/theruskschool>