



Your Guide To Careers In

# Health Science



In 2009, there were 62,233 licensed physicians in Texas.



## A HEALTHY FUTURE

In 2006, 8,847 licensed dental hygienists were actively practicing in Texas.



The Texas Children's Cancer Center in Houston treats more than 26,000 patients a year.

# PROGRAMS OF STUDY



## Therapeutic Services (i.e. Physician)

Focus primarily on changing the health status of the patient over time. Work directly with patients; they may provide care, treatment, counseling, and health education information.

## Diagnostic Services (i.e. Medical Laboratory Scientist)

Use tests and evaluations that aid in the detection, diagnosis and treatment of diseases, injuries or other physical conditions.

## Health Informatics (i.e. Health Care Administrator)

Manage health care agencies as well as those individuals who are responsible for managing all of the patient data and information, financial information, and computer applications related to health care processes and procedures.

## Support Services (i.e. Environmental Scientist)

Provide a therapeutic environment for the delivery of health care. Support services offer a full range of career opportunities from entry level to management including technical and professional careers.

## Biotechnology Research and Development (i.e. Biological Technician)

Research and development as it applies to human health. These scientists may study diseases to discover new treatments or invent medical devices used to directly assist patients or to improve the accuracy of diagnostic tests.

# CAREER OPTIONS

Occupation	Education
Family and General Practitioner	First Professional Degree
Dentist, General	First Professional Degree
Epidemiologist	Master's Degree
Audiologist	Master's Degree
Speech-Language Pathologist	Master's Degree
Physical Therapist	Master's Degree
Medical and Health Services Manager	Bachelor's Plus Experience
Physician Assistant	Bachelor's Degree
Dietitian and Nutritionist	Bachelor's Degree
Orthotist and Prosthetist	Bachelor's Degree
Registered Nurse	Associate's Degree
Medical and Clinical Laboratory Technician	Associate's Degree
Radiation Therapist	Associate's Degree
Radiologic Technologist and Technician	Associate's Degree
Diagnostic Medical Sonographer	Associate's Degree
Nuclear Medicine Technologist	Associate's Degree
Medical Records and Health Information Technician	Associate's Degree
Massage Therapist	Postsecondary Award
Respiratory Therapy Technician	Postsecondary Award
Licensed Practical and Licensed Vocational Nurse	Postsecondary Award
Optician, Dispensing	Long-Term On-The-Job Training
Pharmacy Technician	Moderate-Term On-The-Job Training
Dietetic Technician	Moderate-Term On-The-Job Training
Psychiatric Technician	Moderate-Term On-The-Job Training

# SAMPLE GRADUATION PLAN (26 CREDIT RHSP)

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	4th Year of Math
Biology	Chemistry	Physics	4th Year of Science
World Geography	World History	US History	Government/Economics

The following courses must be included in the personal graduation plan at a time deemed appropriate by the student, parent, and counselor. Please refer to the Katy I.S.D. Planning Guide for additional information.

**Communication Applications (1/2 Credit)**

**Fine Arts (1 Credit)**

**P.E. (1 Credit)**

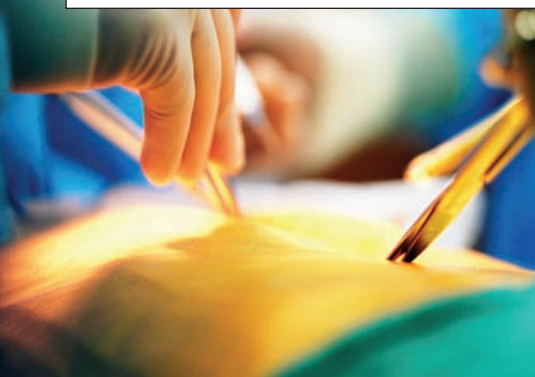
**Language Other Than English (2 Credits)**

**Health (1/2 Credit)**

**Electives (5 Credits - May Include CTE Elective Options\*)**

\*CTE Elective Options (Note: Course Selection and Sequence Based On Individual Student Interests, Abilities, and Course Availability) See below:

PROGRAM OF STUDY	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Therapeutic Services</b>	<ul style="list-style-type: none"> <li>Principles of Human Services</li> </ul> <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>Health Science II: Clinical Rotation</li> </ul>	<ul style="list-style-type: none"> <li>Career Prep: Practicum in Health Science</li> <li>EMT Basic</li> <li>Pharmacy Technician</li> </ul>
<b>Diagnostic Services</b>	<ul style="list-style-type: none"> <li>Principles of Human Services</li> </ul> <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>Health Science II: Clinical Rotation</li> </ul>	<ul style="list-style-type: none"> <li>Career Prep: Practicum in Health Science</li> <li>EMT Basic</li> <li>Pharmacy Technician</li> </ul>
<b>Health Informatics</b>	<ul style="list-style-type: none"> <li>Principles of Human Services</li> </ul> <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>Health Science II: Clinical Rotation</li> </ul>	<ul style="list-style-type: none"> <li>Career Prep: Practicum in Health Science</li> <li>EMT Basic</li> <li>Pharmacy Technician</li> </ul>
<b>Support Services</b>	<ul style="list-style-type: none"> <li>Principles of Human Services</li> </ul> <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>Health Science II: Clinical Rotation</li> </ul>	<ul style="list-style-type: none"> <li>Career Prep: Practicum in Health Science</li> <li>EMT Basic</li> <li>Pharmacy Technician</li> </ul>
<b>Biotechnology Research and Development</b>	<ul style="list-style-type: none"> <li>Principles of Human Services</li> </ul> <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>Health Science II: Clinical Rotation</li> </ul>	<ul style="list-style-type: none"> <li>Career Prep: Practicum in Health Science</li> <li>EMT Basic</li> <li>Pharmacy Technician</li> </ul>



# ADVANCED TECHNICAL CREDIT COURSE CROSSWALK

The following CTE courses that are offered in Katy I.S.D. may qualify as Advanced Technical Credit Courses (ATC).

Katy I.S.D. CTE Courses	Jr./Community College Equivalent
Principles of Health Science (8093) OR Health Science (8094/8095)	Introduction to Health Professions (HPRS 1101 or HPRS 1201) OR
Medical Terminology (8098) AND Principles of Health Science (8093) OR Health Science (8094/8095)	Essentials of Medical Terminology (HPRS 1106 or HPRS 1206) OR Medical Terminology (MDCA 1213 or MDCA 1313) OR Medical Terminology I (HITT 1205 or HITT 1305)
Anatomy and Physiology (0415)	Anatomy and Physiology for Allied Health (VNSG 1320 or VNSG 1420) OR Anatomy and Physiology for Medical Assistants (MDCA 1309 or MDCA 1409)



## Tech Prep Six-Year Plan

Tech Prep Six-Year Plan in partnership with Houston Community College is available in Health Information Technology and Physical Therapist Assistant. Please consult with teacher and/or counselor for additional information.



## HOSA

Health Occupations Students of America (HOSA) provides a unique program of leadership development, motivation, and recognition for students enrolled in the Health Science career cluster. The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development for students.

## FOR MORE INFORMATION

The Career & Technical Education Department  
6301 South Stadium Lane  
Katy, Texas 77492  
281-396-2633

### Resources

*Achieve Texas in Action: A College and Career Planning Guide* - Texas Education Agency  
*Occupational Outlook Handbook* - U.S. Department of Labor

*It is the policy of Katy ISD not to discriminate on the basis of sex, disability, race, religion, color, gender, age, or national origin in its educational programs and/or activities including career and technical education programs, nor in its employment practices.*

