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# Shallowater ISD

## Rehabilitation in CTE: Medical Therapy Program for Students

July 18, 2023

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## Community/District Profile

- Community population of approximately 3,000 people
- Located 10 miles outside the region's economic/medical hub (Lubbock)
- District enrollment of approximately 1775 students
- SHS enrollment of approximately 530 students
- 12 CTE Program of Study pathways





## **CTE Programming Objectives**

- Expand CTE options for students (exposure)
- Assist students in obtaining relevant industry based certifications
- Address workforce needs/shortages in the healthcare industry for the region/state

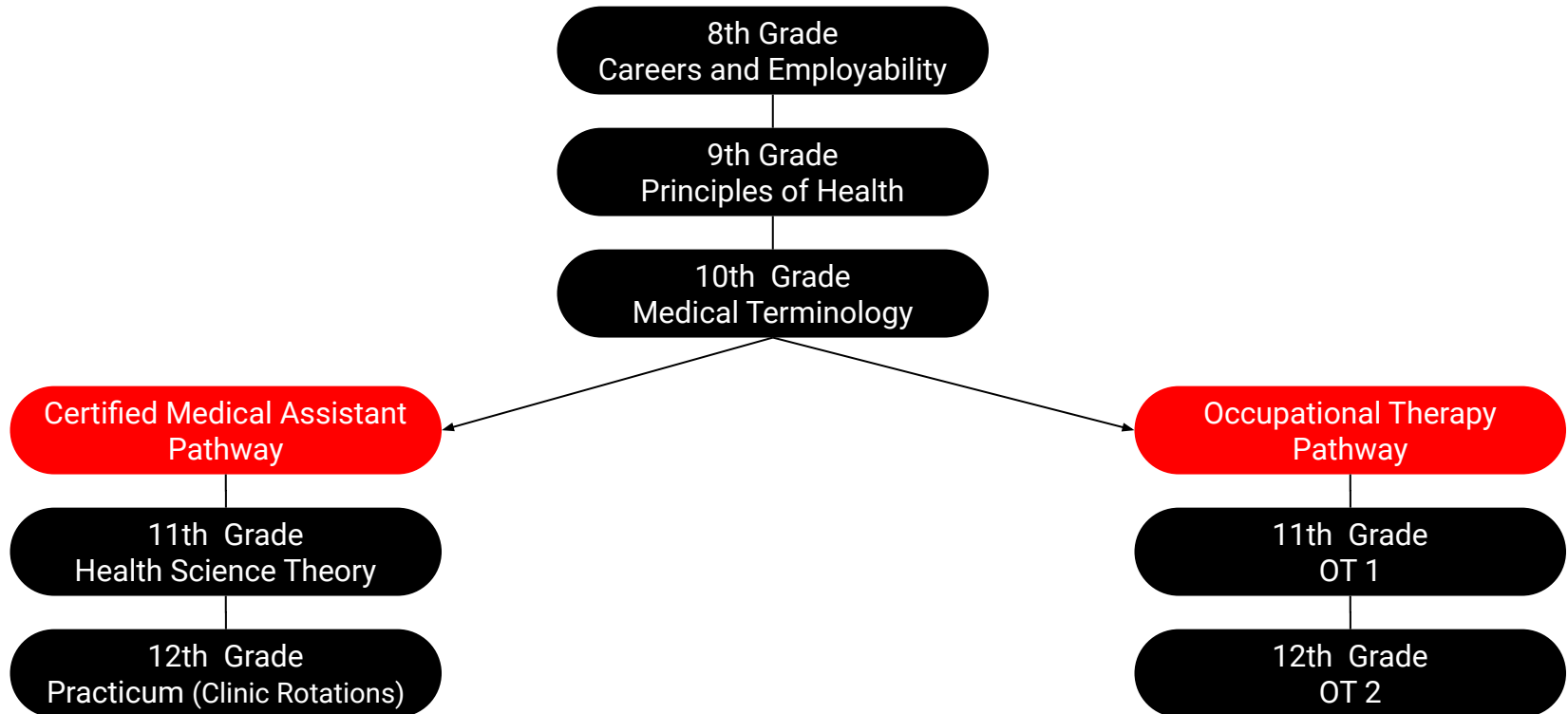
# Health Sciences Programs of Study (CMA and OT)

- Background on OT Program Origination
- HSC Learning Space  
(Partnership with UMC)
- OT/CMA Coexistence
- Certification Options
- Dual Credit Possibilities  
(College Articulation Agreements)





# Health Sciences Pathways





## **OT Program Current Status**

- **OT I Enrollment**
  - 22-23: 5
  - 23-24: 17
- **OT II Enrollment**
  - 22-23: n/a
  - 23-24: 2\* Jr's from OT I Inaugural Class
- **Introduce Dr. Coffelt**

# Background

## Innovative CTE Course Creation

- **TEA: High needs high pay job outlook Nationally**
  - OT Projected 14% growth
  - PT Projected 17% growth
  - SLP Projected 21% growth
- **Timeline: Occupational Therapy Pathway**
  - Fall 2021: Committee Creation
  - January 2022: Innovative Course Application Submitted
  - August 2022: Application Approved
  - OTI: 2022-2023 School Year

<b>2022 Texas Average Salary</b>	
Physical Therapy	\$102,300
Occupational Therapy	\$96,900
Speech Language Pathologist	\$85,530
OT Assistant	\$74,750
PT Assistant	\$73,770
Medical Assistant	\$36,910
Therapy Aide (U.S. Bureau of Labor Statistics, 2023)	\$31,785

# Why Medical Therapy?

## High Needs, High Wage Job

- Associate Level (Assistant) Degree ~\$74,000
- Master Level Degree ~\$85,000
- Doctorate Level Degree ~\$100,000

## Educational Opportunities:

- High School
  - Industry Certifications: PCTC, CMA
- College
  - Associate Level Certification: PTA, OTA
  - Industry Certifications: PCTC, CMA
- University
  - Bachelor's Level Certification : SLPA
  - Masters Level Certification: OTR, SLP
  - Entry Level Doctorate Certification: DPT, OTD



Image Retrieved from: Shallowater ISD Media





# Higher Level Education Opportunities: Texas

<b>Degree Type</b>	<b>Number of Campuses*</b>	<b>Number of Public Institutions</b>
Occupational Therapy Assistant (OTA): Associate	21	17
Physical Therapy Assistant (PTA): Associate	27	22
Occupational Therapy Masters (OT): Master	4	1
Master of Science in Speech Language Pathology (SLP): Master	21	14
Doctor of Occupational Therapy (OTD): Doctorate	9	4
Doctor of Physical Therapy (DPT): Doctorate	19	13

\*Some institutions have multiple locations  
(ASHA, n.d.); (ACOTE, 2023); (CAPTE; n.d.)

# — What is the Medical Therapy Pathway?

## Health Science Career Cluster Programs of Study

1. Exercise Science & Wellness
2. Health Informatics \*
3. Healthcare Diagnostics \*
4. Healthcare Therapeutic \*
5. Medical Therapy \*
6. Nursing Science \*

\*Program of study that share prerequisite courses: Principles of Health Science & Medical Terminology

# Medical Therapy Courses

## Current Medical Therapy Pathway Courses



## Secondary Courses for High School Credit

### Level 1

- Principles of Health Science
- Introduction to Speech Pathology and Audiology
- Principles of Allied Health

### Level 2

- Medical Terminology
- Speech and Language Development
- Allied Health Therapeutic Services

### Level 3

- Speech Communication Disorders
- Health Science Theory/Health Science Clinical
- Physical Therapy I
- Occupational Therapy I
- Radiation Therapy I (TBD)
- Respiratory Therapy I

### Level 4

- Practicum in Health Science
- Occupational Therapy II
- Physical Therapy II
- Radiation Therapy II (TBD)
- Respiratory Therapy II (TBD)

# Medical Therapy Program of Study Course Enrollment

Course Name	Level	2022-2023	2021-2022	2020-2021
Principles of Health Science*	Level 1	70,554	62,177	69,744
Medical Terminology*	Level 2	51,514	47,301	46,273
Speech & Language Development	Level 2	49	0	0
Allied Health Therapeutic Services	Level 2	183	N/A	N/A
Health Science Theory & Health Science Clinical (combined)	Level 3	37,490	34,880	36,371
Physical Therapy I	Level 3	205	0	N/A
Occupational Therapy I	Level 3	5	N/A	N/A
Practicum in Health Science (all sections combined)	Level 4	23,177	22,153	21,012

Courses not listed had enrollment of 0; \*Prerequisite courses for multiple programs of study.

(TEA, 2022)

# Rehabilitation Therapy Specific Courses

## Speech Language Pathology (SLP)

Level 1: Introduction to Speech Pathology and Audiology

Level 2: Speech and Language Development

Level 3: Speech Communication Disorders

## Occupational Therapy (OT)

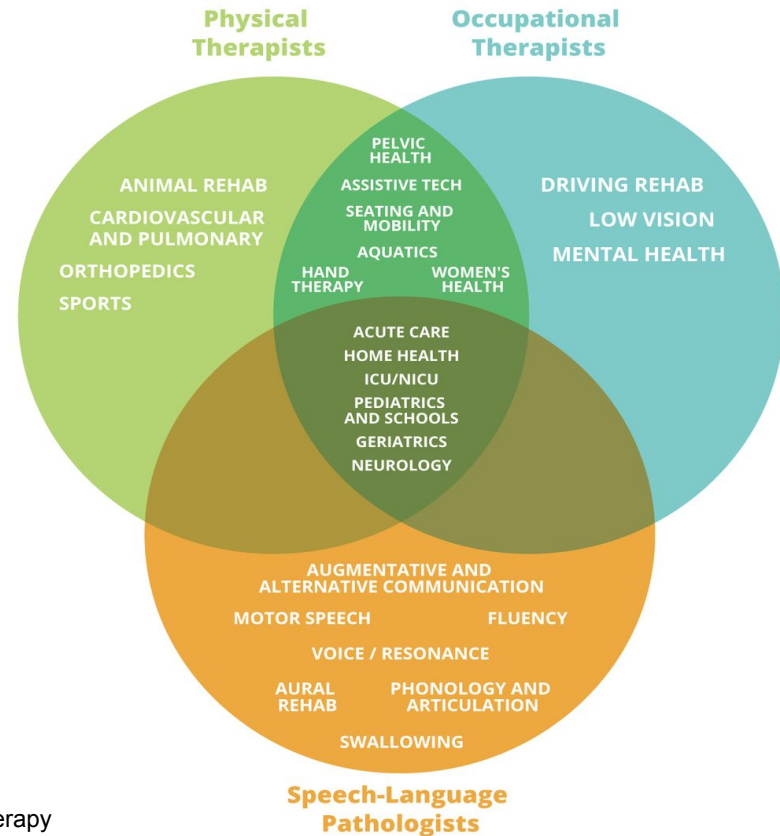
Level 3: Occupational Therapy I

Level 4: Occupational Therapy II

## Physical Therapy (PT)

Level 3: Physical Therapy I

Level 4: Physical Therapy II



# Medical Therapy Program TEKS

[Health Science Career Innovative Course TEKS Link:](#)





# Speech Language Pathology & Audiology

## Introduction to Speech Pathology & Audiology

Grades 10, 11, 12; Level 1 Course

Pre-Req: Principles of Health Science, Anatomy and Physiology

Focuses on development of advanced knowledge and skills related to the professions that specialize in communication disorders: speech-language pathology, audiology, hearing, and speech and language science.

- Professional practice of SLP, audiology & hearing, speech & language sciences
- Scope of practice as determined by ASHA
- Multicultural service delivery
- Practice settings, ethics, & employment
- Use of technology in practice



# Speech Language Pathology & Audiology

## Speech & Language Development

Grades 11, 12

Pre-Req: Principles of Health Science, Anatomy and Physiology, and Introduction to Speech Pathology and Audiology.

Focuses on development of advanced knowledge and skills related to the speech and language acquisition and growth of developing children.

- Communication Processes
- Speech, language, communication acquisition
- Understanding healthy & unhealthy speech patterns
- Communication skills to work effectively within a team

## Speech Communication Disorders

Grades 11, 12

Pre-req: Principles of Health Science, Anatomy and Physiology, Introduction to Speech-Language Pathology and Audiology, Speech and Language Development, and Human Growth and Development

Focuses on providing the development of advanced knowledge and skills related to an overview of communication disorders in adults and children.

- Speech sound production, stuttering, voice disorders, semantics, syntax, pragmatics, phonology, & metalinguistics.
- Overview of treatment for hearing loss & deafness
- Critical thinking, decision making, problem solving & effective communication





# Physical Therapy

## Physical Therapy I

Grades 10, 11, 12

Pre-Req: Biology, Principles of Health Science or Principles of Allied Health, or Medical Terminology.

Focuses on providing basic concepts, knowledge, and skills needed to work within physical therapy practice.

- Proper management of equipment & patient care
- Strengthening & conditioning
- Communication skills to work effectively within a team

## Physical Therapy II

Grades 11, 12

Pre-req: Biology, Physical Therapy I

Co-req: Anatomy & Physiology

Focuses on building upon the foundational skills that students learned in Physical Therapy I

- Hands on practice
- Musculoskeletal strength and range of motion (ROM) assessment
- Safety techniques
- Administering therapeutic exercise routines
- Professional skills



# Occupational Therapy

## Occupational Therapy I

Grades 11,12

Pre-Req: Principles of Health Science or Principles of Allied Health *AND* Medical Terminology or Allied Health Therapeutic Services

Focuses on OT career & principles and practices of occupational therapy practitioners

- History of OT
- Career preparation, Laws & Governing Bodies
- Basic Med Term, Anatomy & Physiology, Diseases & Processes
- Proper management of equipment & patient care
- Communication skills for effective teamwork

## Occupational Therapy II

Grade 12

Pre-req: Occupational Therapy I

Focus on building students' prior knowledge of OT the Practice Framework and process

- Application of intervention modalities
- Use of assistive technology
- Building therapeutic relationships
- Performing occupational therapy assessments.
- Hands-on activity labs and field-based learning experiences.



# **Occupational Therapy Program at SISD**

## **Health Science CTE Pathway**

1st Year: Principles of Health Science

2nd Year: Medical Terminology

3rd Year: Occupational Therapy I

4th Year: Occupational Therapy II w/ Patient Care Technician Certification (PCTC) option

## **Why PCTC?**

- Feedback from Community Partners
- Better fit for Rehabilitation Technician or Therapy Aide
- CMA certification offered for “nursing” track
- Higher education Shadowing Hours

# Community Resources

## Field Trips and extended learning experiences within 10 miles of the school:

- “HUB” City
- Local Hospital Involvement: University Medical Center (UMC)
- Local Educational Institutions: Texas Tech Health Sciences Center

## Community Colleges within 150 miles

- South Plains Community College: PTA program
- Amarillo College: OTA & PTA programs

## Universities within 10 miles:

- Texas Tech University
- Texas Tech University Health Sciences Center
- Lubbock Christian University





# **Student Recruitment & Retention**

## **Recruitment:**

- **1st year: Presentation & Job Shadowing opportunity**
- **2nd year: Word of mouth & joint field trip opportunities**

## **Challenges:**

- **Scheduling**
- **District Size**
- **OT vs. PT vs SLP: Catch all course**
- **Funding**

## **Pros:**

- **Has been extremely rewarding as a therapist gone teacher**
- **Allows for creativity and partnerships within the school across campuses**
- **Students have really enjoyed the course and it's challenges**

# Student Retention

## End of Course Survey

- “You're an amazing teacher and have helped me learn so much throughout the year, I'm glad I got to be one of your guinea pigs! You have allowed me to open my mind to other healthcare professions, along with encouraging me throughout the year. All I have to say is thank you for being one of the best teachers that I have ever had.”
- “Honestly, with the course being new I didn't expect it to be as much work as it was. It wasn't that it was a lot, but I did come in with lower expectations. Over the time I took the course I realised how much I really wanted to pursue a career in OT/SLP. Coming into class I knew that I would learn something each day, it even helped me strengthen my memorisation with anatomy.”



## Preparation for “next” year:

- 2/2 Juniors felt the course prepared them for OT II
- 2/3 seniors feel totally prepared for higher education and 1/3 seniors felt mostly prepared.

## 100% students reported:

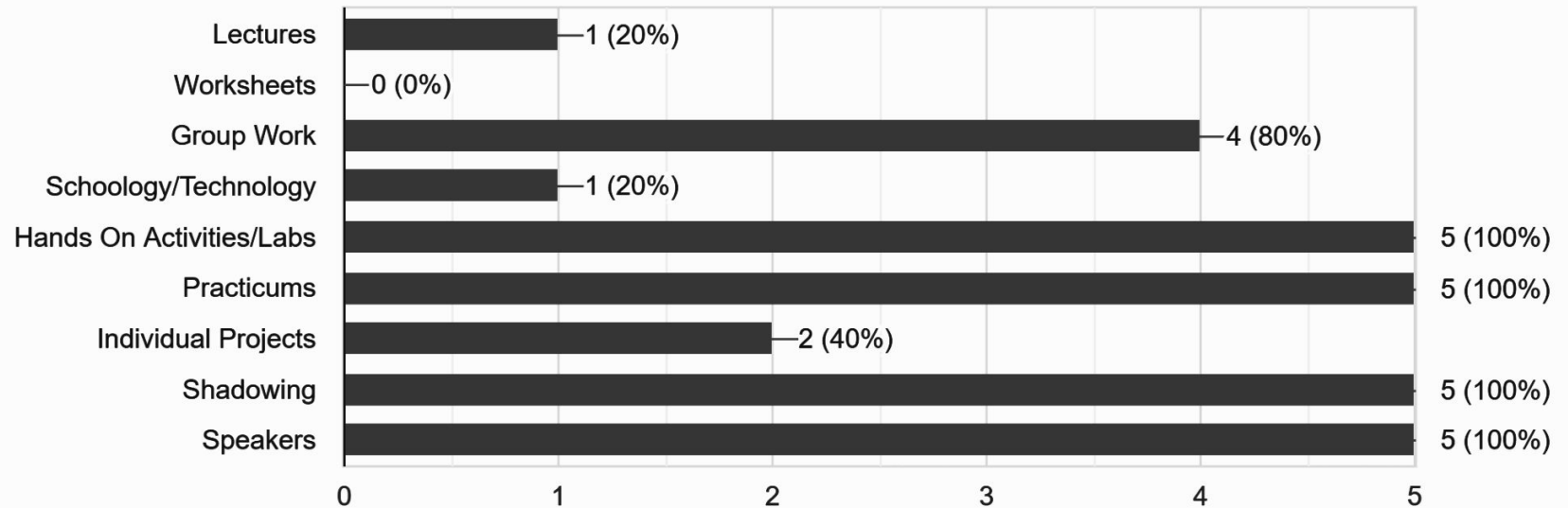
- Learned a lot & teacher had high expectations of them
- The course activities were adequate for learning
- Having a classically trained OT was beneficial to their learning
- The learning environment played a significant role in their learning



# Student Recruitment & Retention

10. What part of class did you enjoy most? (Select all that apply)

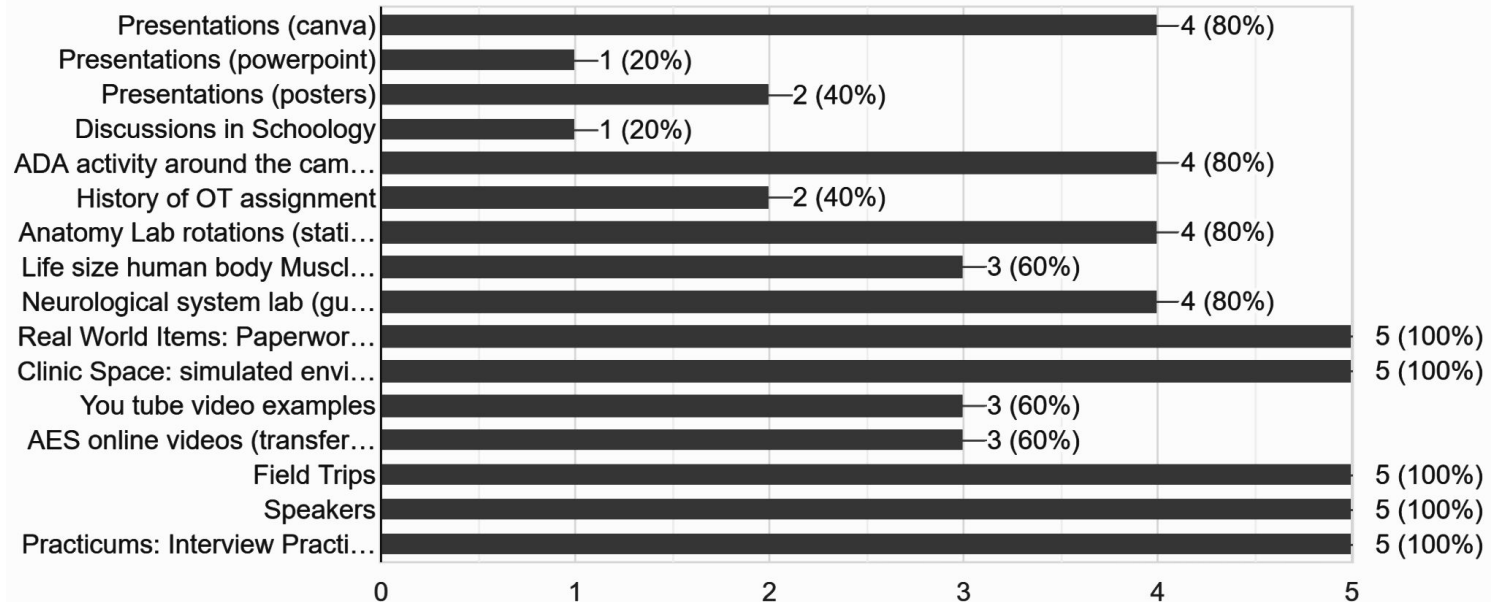
5 responses



# Student Recruitment & Retention

15. Select which things about this class were your favorite (select all that apply)

5 responses







# References

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- Commission on Accreditation in Physical Therapy Education (CAPTE). (n.d.). *Accredited physical therapy programs*. Accredited Physical Therapy Programs. <https://www.capteonline.org/programs/accredited-physical-therapy-programs>
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- TX School Directory*. Accreditation Council for Occupational Therapy Education (ACOTE). (2023). <https://acoteonline.org/schools/?cn-cat-in%5B%5D=&cn-region=TX&cn-s=>
- U.S. Bureau of Labor Statistics. (2023, April 25). *Texas - May 2022 OEWS State Occupational Employment and wage estimates*. U.S. Bureau of Labor Statistics. [https://www.bls.gov/oes/current/oes\\_tx.htm](https://www.bls.gov/oes/current/oes_tx.htm)



# References

U.S. Bureau of Labor Statistics: U.S. Labor Department. (2023a, March 21). *Occupational therapists : Occupational outlook handbook*. U.S. Bureau of Labor Statistics.  
<https://www.bls.gov/ooh/healthcare/occupational-therapists.htm>

U.S. Bureau of Labor Statistics: U.S. Labor Department. (2022, September 8). *Physical therapists : Occupational outlook handbook*. U.S. Bureau of Labor Statistics.  
<https://www.bls.gov/ooh/healthcare/physical-therapists.htm>

U.S. Bureau of Labor Statistics: U.S. Labor Department. (2022, September 28). *Speech language pathologists : Occupational outlook handbook*. U.S. Bureau of Labor Statistics.  
<https://www.bls.gov/ooh/healthcare/speech-language-pathologists.htm>



# Linked Resources

<https://tea.texas.gov/sites/default/files/hs-medical-therapy.pdf>

<https://tea.texas.gov/academics/learning-support-and-programs/innovative-courses/innovative-courses-career-and-technical-education>

<https://tea.texas.gov/sites/default/files/physical-therapy-I-2021.pdf>

<https://tea.texas.gov/sites/default/files/physical-therapy-II-2022.pdf>

[https://tea.texas.gov/sites/default/files/Introduction\\_to\\_Speech\\_Pathology\\_and\\_Audiology\\_2017.pdf](https://tea.texas.gov/sites/default/files/Introduction_to_Speech_Pathology_and_Audiology_2017.pdf)

[https://tea.texas.gov/sites/default/files/Speech\\_and\\_Language\\_Development\\_2017.pdf](https://tea.texas.gov/sites/default/files/Speech_and_Language_Development_2017.pdf)

[https://tea.texas.gov/sites/default/files/Speech%20Communication\\_Disorders\\_2017.pdf](https://tea.texas.gov/sites/default/files/Speech%20Communication_Disorders_2017.pdf)

<https://tea.texas.gov/sites/default/files/occupational-therapy-I-2022.pdf>

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# Questions

