# Table of Contents

**General Information** .................................................. 5  
Frequently Asked Questions ........................................ 6  
SOAHS Academic Calendar ........................................... 8  
Message from the Dean ............................................... 13  
Administration .......................................................... 14  
About Our School ....................................................... 15  
General Policies and Procedures ................................... 19  
Interprofessional Education ......................................... 30  
Admission Policies and Requirements ............................ 31  
Financial Information .................................................. 34  
Tuition and Fees .......................................................... 35

**Department of Speech, Language, and Hearing Sciences** ........... 41  
Program in Speech, Language, and Hearing Sciences ............ 45  
Program in Speech-Language Pathology ........................... 51  
Program in Audiology .................................................. 57  
Program in Communication Sciences and Disorders ............. 67

**Department of Laboratory Sciences and Primary Care** .......... 73  
Program in Clinical Laboratory Science ............................ 75  
Program in Molecular Pathology .................................... 91  
Program in Physician Assistant Studies .......................... 97

**Department of Rehabilitation Sciences** ............................ 109  
Program in Athletic Training ........................................ 111  
Program in Occupational Therapy ................................... 123  
Doctor of Physical Therapy (D.P.T.) ................................ 139  
Transitional Doctor of Physical Therapy Pathway (D.P.T.) ....... 155  
Doctor of Science in Physical Therapy (Sc.D.) .................... 161  
Doctor of Philosophy in Rehabilitation Sciences (Ph.D.) ....... 173

**Department of Clinic Administration and Rehabilitation Counseling** 179  
Program in Clinical Services Management ........................ 181  
Program in Clinical Practice Management ........................ 189  
Program in Rehabilitation Counseling ............................. 195

**Faculty Directory** .................................................... 203

**Subject Index** .......................................................... 213
GENERAL INFORMATION
Frequently Asked Questions

Q: What degrees do the School of Allied Health Sciences offer?
A: The School of Allied Health Sciences offers the following degrees:

- Bachelor of Science (B.S.)
  - Clinical Laboratory Science
  - Clinical Services Management
  - Health Science
  - Speech, Language, and Hearing Sciences
- Master of Athletic Training (M.A.T.)
- Master of Occupational Therapy (M.O.T.)
- Master of Physician Assistant Studies (M.P.A.S.)
- Doctor of Physical Therapy (D.P.T.)
- Master of Rehabilitation Counseling (M.R.C.)
- Master of Science (M.S.)
  - Clinical Practice Management
  - Molecular Pathology
  - Speech-Language Pathology
- Doctor of Audiology (Au.D.)
- Doctor of Science in Physical Therapy (Sc.D.)
- Doctor of Philosophy in Communication Sciences and Disorders (Ph.D.)
- Doctor of Philosophy in Rehabilitation Sciences (Ph.D.)

Q: How can I apply for admission to the School of Allied Health Sciences?
A: The online application may be accessed via the Texas Tech University Health Sciences Center, School of Allied Health Sciences’ web site at www.ttuhsc.edu/merlin. Physician Assistants must apply using CASPA which may be accessed through www.ttuhsc.edu/sah or www.caspaonline.org.

Q: How can I contact the School of Allied Health Sciences?
A: You can contact us by using the following information:

Texas Tech University Health Sciences Center
School of Allied Health Sciences
Office of Admissions and Student Affairs
3601 4th Street, Suite 2BC 194
Lubbock, TX 79430
806-743-3220, fax 806-743-2994
www.ttuhsc.edu/sah
Q: How is the School of Allied Health Sciences organized?
A: Our eighteen programs are organized into four Departments:

- Department of Clinic Administration and Rehabilitation Counseling
  - Program in Clinical Services Management (B.S.)
  - Program in Clinical Practice Management (M.S.)
  - Program in Rehabilitation Counseling (MRC)

- Department of Laboratory Sciences and Primary Care
  - Program in Clinical Laboratory Science (B.S.) and Certificate
  - Program in Molecular Pathology (M.S.)
  - Program in Physician Assistant Studies (M.P.A.S.)

- Department of Rehabilitation Sciences
  - Program in Athletic Training (M.A.T.)
  - Program in Occupational Therapy (M.O.T.)
  - Program in Physical Therapy (D.P.T., Sc.D. & tD.P.T.)
  - Program in Health Sciences (B.S.)
  - Doctor of Philosophy in Rehabilitation Sciences (Ph.D.)

- Department of Speech, Language, and Hearing Sciences
  - Program in Communication Sciences and Disorders (Ph.D.)
  - Program in Audiology (Au.D.)
  - Program in Speech, Language, and Hearing Sciences (B.S.)
  - Program in Speech-Language Pathology (M.S.)
## SOAHS Academic Calendar

### Summer 2013

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day to register or withdraw from the university without a penalty</td>
<td>May 27th</td>
</tr>
<tr>
<td>Orientation CLS, PA, PT, OT, AT, MP, and SLP</td>
<td>May 28th</td>
</tr>
<tr>
<td><strong>First Day of Class</strong></td>
<td><strong>May 28th</strong></td>
</tr>
<tr>
<td>Advance registration for Fall begins for currently enrolled students</td>
<td>June 6th</td>
</tr>
<tr>
<td>Last Day to file defense notification</td>
<td>June 8th</td>
</tr>
<tr>
<td>PA Clerkship 7 Ends</td>
<td>June 11th</td>
</tr>
<tr>
<td>Last Day of Add/Drop</td>
<td>June 12th</td>
</tr>
<tr>
<td>PA Grand Rounds 7</td>
<td>June 13th - 14th</td>
</tr>
<tr>
<td>M.O.T. Fieldwork II:1 Begins</td>
<td>June 17th</td>
</tr>
<tr>
<td>PA Clerkship 8 Begins</td>
<td>June 17th</td>
</tr>
<tr>
<td>Last Day to withdraw from TTUHSC and receive a partial refund</td>
<td>June 24th</td>
</tr>
<tr>
<td>MAT 2 Last Day of Class</td>
<td>July 1st</td>
</tr>
<tr>
<td>MAT 2 Final Exams</td>
<td>July 2nd-3rd</td>
</tr>
<tr>
<td>Last Day to defend thesis/dissertation</td>
<td>July 5th</td>
</tr>
<tr>
<td>Last date to submit final corrected PDF of thesis/dissertation</td>
<td>July 9th</td>
</tr>
<tr>
<td>D.P.T. 2 Finals</td>
<td>July 11th-12th</td>
</tr>
<tr>
<td>D.P.T. 2 Clinical Internship I: Begins</td>
<td>July 15th</td>
</tr>
<tr>
<td>PA Clerkship 8 Ends</td>
<td>July 23rd</td>
</tr>
<tr>
<td>Last day to drop and receive a W</td>
<td>July 23rd</td>
</tr>
<tr>
<td>PA Final Grand Rounds</td>
<td>July 26th</td>
</tr>
<tr>
<td>PA Board Review</td>
<td>July 30-August 2nd</td>
</tr>
<tr>
<td>MAT 1/DPT 1/DPT 3 Last Day of Class</td>
<td>July 31st</td>
</tr>
<tr>
<td>Last day to drop a course or withdraw from the university</td>
<td>August 1st</td>
</tr>
<tr>
<td>MAT 1/DPT 1/DPT 3 Final Exams</td>
<td>August 1st-2nd</td>
</tr>
<tr>
<td><strong>Final Day of Class</strong></td>
<td><strong>August 7th</strong></td>
</tr>
<tr>
<td>M.O.T. Finals Begin</td>
<td>August 8th</td>
</tr>
<tr>
<td>M.O.T. Finals End</td>
<td>August 9th</td>
</tr>
<tr>
<td>DPT 2 Clinical Internship I: Ends</td>
<td>August 9th</td>
</tr>
<tr>
<td>PA Clerkship 1 Begins</td>
<td>August 12th</td>
</tr>
<tr>
<td>Final Grades due for Graduating Students</td>
<td>August 13th</td>
</tr>
<tr>
<td><strong>Final Day of the Semester</strong></td>
<td><strong>August 14th</strong></td>
</tr>
<tr>
<td>CLS Online Student Last Day of Preceptorship</td>
<td>August 16th</td>
</tr>
<tr>
<td>Official School of Allied Health Sciences Center Graduation</td>
<td>August 17th</td>
</tr>
<tr>
<td>Final Grades due via Web for Faculty</td>
<td>August 19th</td>
</tr>
</tbody>
</table>

### 1st Summer 2013 (CSM & CPM Program Only)

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day to register or withdraw from the University without a penalty</td>
<td>May 27th</td>
</tr>
<tr>
<td>First day of class</td>
<td>May 28th</td>
</tr>
<tr>
<td>Last day to withdraw from the University with partial refund</td>
<td>June 4th</td>
</tr>
<tr>
<td>Last day to drop a course and receive an automatic W</td>
<td>June 11th</td>
</tr>
<tr>
<td>Last day to drop a course or withdraw from the university</td>
<td>June 28th</td>
</tr>
<tr>
<td>Final exams</td>
<td>July 3rd-5th</td>
</tr>
</tbody>
</table>
Last day of classes: July 5th
All final grades must be posted: July 8th

### 2nd Summer 2013 (CSM & CPM Programs Only)

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last day to register or withdraw from the university without penalty</td>
<td>July 9th</td>
</tr>
<tr>
<td>First day of class</td>
<td>July 10th</td>
</tr>
<tr>
<td>Last day to withdraw from the university with a partial refund</td>
<td>July 17th</td>
</tr>
<tr>
<td>Last day to drop a course and receive an automatic W</td>
<td>July 24th</td>
</tr>
<tr>
<td>Last day to drop a course or withdraw from the university</td>
<td>August 12th</td>
</tr>
<tr>
<td>Last day of class</td>
<td>August 14th</td>
</tr>
<tr>
<td>Final Exams</td>
<td>August 15th-16th</td>
</tr>
<tr>
<td>Final grades posted</td>
<td>August 19th</td>
</tr>
</tbody>
</table>

### Fall 2013

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT Clinical Experiences Begin</td>
<td>August 5th</td>
</tr>
<tr>
<td>M.O.T. 2 Optional Fieldwork I: 1 Begins</td>
<td>August 12th</td>
</tr>
<tr>
<td>PA Clerkship 1 Begins</td>
<td>August 12th</td>
</tr>
<tr>
<td>D.P.T. Clinical Internship II: Begins</td>
<td>August 19th</td>
</tr>
<tr>
<td>Orientation CLS, SLHS, SLP, Au.D., Ph.D. CSD, and Ph.D. RS</td>
<td>August 20th</td>
</tr>
<tr>
<td>Last day to register or withdraw from the university without a penalty</td>
<td>August 20th</td>
</tr>
<tr>
<td><strong>First Day of Class</strong></td>
<td><strong>August 21st</strong></td>
</tr>
<tr>
<td>M.O.T. 2 Optional Fieldwork I: Ends</td>
<td>August 23rd</td>
</tr>
<tr>
<td>M.O.T 2 First day of class</td>
<td>August 26th</td>
</tr>
<tr>
<td>Labor Day (University Holiday)</td>
<td>September 2nd</td>
</tr>
<tr>
<td>Last Day of Drop/Add and receive a refund</td>
<td>September 6th</td>
</tr>
<tr>
<td>M.O.T. Fieldwork II: 1 Ends</td>
<td>September 6th</td>
</tr>
<tr>
<td>M.O.T. Fieldwork II: 2 Begins</td>
<td>September 16th</td>
</tr>
<tr>
<td>PA Clerkship 1 Ends</td>
<td>September 17th</td>
</tr>
<tr>
<td>Last Day to withdraw from TTUHSC and receive a partial refund</td>
<td>September 18th</td>
</tr>
<tr>
<td>PA Grand Rounds 1</td>
<td>September 19th - 20th</td>
</tr>
<tr>
<td>PA Clerkship 2 Begins</td>
<td>September 23rd</td>
</tr>
<tr>
<td>Last day to drop a course and receive an automatic W</td>
<td>October 2nd</td>
</tr>
<tr>
<td><strong>Last Day to file defense notification</strong></td>
<td><strong>September 28th</strong></td>
</tr>
<tr>
<td>D.P.T. Clinical Internship II: Ends</td>
<td>October 11th</td>
</tr>
<tr>
<td>D.P.T. Clinical Internship III: Begins</td>
<td>October 14th</td>
</tr>
<tr>
<td>Job Fair</td>
<td>October 22nd</td>
</tr>
<tr>
<td><strong>Last Day to defend thesis/dissertation</strong></td>
<td><strong>October 19th</strong></td>
</tr>
<tr>
<td>PA Clerkship 2 Ends</td>
<td>October 29th</td>
</tr>
<tr>
<td>PA Grand Rounds 2</td>
<td>October 31st - Nov. 1st</td>
</tr>
<tr>
<td>Advanced registration for Spring begins for currently enrolled</td>
<td>November 4th</td>
</tr>
<tr>
<td><strong>Last date to submit final corrected PDF of thesis/dissertation</strong></td>
<td><strong>November 2nd</strong></td>
</tr>
<tr>
<td>PA Clerkship 3 Begins</td>
<td>November 4th</td>
</tr>
<tr>
<td>Official University Thanksgiving Holiday</td>
<td>November 20th - 24th</td>
</tr>
<tr>
<td>Last day to drop a course or withdraw from the university</td>
<td>December 2nd</td>
</tr>
<tr>
<td>D.P.T. Clinical Internship III: Ends</td>
<td>December 6th</td>
</tr>
<tr>
<td><strong>Final Day of Class</strong></td>
<td><strong>December 6th</strong></td>
</tr>
<tr>
<td>M.O.T. Fieldwork II: 2 Ends</td>
<td>December 6th</td>
</tr>
<tr>
<td>M.O.T. Finals Begin</td>
<td>December 6th</td>
</tr>
</tbody>
</table>

*School of Allied Health Sciences*
PA Clerkship 3 Ends: December 10th
Final Grades due for Graduating Students: December 11th
PA Grand Rounds 3: December 12th -13th
M.O.T. Finals End: December 12th

**Final Day of the Semester**
Diploma Date: December 14th
Final Grades due via Web for Faculty: December 16th

**Spring 2014**

PA Clerkship 4 Begins: January 6th
CLS Traditional Preceptorship Begins: January 6th
M.O.T. 2 Fieldwork I: 3 Begins: January 6th
D.P.T. Clinical Internship IV: Begins: January 6th

Last day to register or withdraw from the university without penalty: January 12th

**First Day of Class**
M.O.T. 2 Fieldwork I: 3 Ends: January 17th
Martin Luther King Jr. Day (university holiday): January 20th
M.O.T. 2 First day of class: January 21st
Last day to add/drop and receive a refund: January 29th
Last Day to withdraw from TTUHSC and receive a partial refund: February 10th
PA Clerkship 4 Ends: February 11th
PA Grand Rounds 4: February 13th – 14th
PA Clerkship 5 Begins: February 17th

Last day to drop a course and receive an automatic W: February 24th

**Last Day to file defense notification**
D.P.T. Clinical Internship IV: Ends: February 28th
D.P.T. Clinical Internship V: Begins: March 10th

Spring Break: March 15th-23rd
MP Preceptorship Begins: March 17th
PA Clerkship 5 Ends: March 25th
PA Grand Rounds 5: March 27th - 28th
PA Clerkship 6 Begins: March 31st

**Last Day to defend thesis/dissertation**
Last date to submit final corrected PDF of thesis/dissertation: April 5th
Advance registration for Summer begins for currently enrolled: April 7th

No Class: April 21st
Last day to drop a course or withdraw from the University: April 28th
D.P.T. Clinical Internship V: Ends: May 2nd

M.O.T. Finals Begin: May 2nd

**Final Day of Class**
PA Clerkship 6 Ends: May 6th
PA Clerkship 7 Begins: May 6th
M.O.T. Finals End: May 8th
PA Grand Rounds 6: May 8th – 9th
CLS Traditional Preceptorship Ends: May 9th
MP Preceptorship Ends: May 9th

**Final Day of the Semester**
Final Grades due for Graduating Students: May 14th
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA: Clerkship 7 Begins</td>
<td>May 12th</td>
</tr>
<tr>
<td>DPT Graduate Student Seminar</td>
<td>May 12th-16th</td>
</tr>
<tr>
<td>Final Grades due via Web for Faculty</td>
<td>May 14th</td>
</tr>
<tr>
<td>Final grades must be posted</td>
<td>May 16th</td>
</tr>
<tr>
<td>Convocation</td>
<td>TBD</td>
</tr>
<tr>
<td>Commencement</td>
<td>TBD</td>
</tr>
<tr>
<td>CLS Online Preceptorship Begins</td>
<td>May 19th</td>
</tr>
</tbody>
</table>

**TTUHSC SOAHS reserves the right to make calendar changes in the best interest of the faculty, students, and academic program.**
Message from the Dean

Robin Satterwhite, M.B.A., Ed.D., FACHE
Dean of the School of Allied Health Sciences

I welcome the opportunity to introduce the School of Allied Health Sciences. Established by the Texas State Legislature in 1981, the School of Allied Health Sciences was created to educate allied health professionals to fill critical shortages in meeting crucial healthcare needs of the people of West Texas. The School of Allied Health Sciences has since become a dynamic and vital member of the Texas Tech University Health Sciences Center team.

From its first class of eighteen students in 1983, the School has grown steadily over the past thirty years. With campuses in Amarillo, Lubbock, Midland, and Odessa, the School now serves over 1,300 students enrolled in eighteen different degree programs at the doctoral, masters and baccalaureate degree levels. As it continues to prepare allied health professionals who will meet the evolving healthcare needs of all Texans in the 21st century, the School of Allied Health Sciences remains focused on developing and presenting educational programs of the highest quality in a student-centered learning environment.

Our objective is to offer learning opportunities that exceed nationally recognized standards of technical competence, while simultaneously developing the professional insight and service-oriented compassion that will enable graduates to excel throughout their professional careers. The faculty, students, and alumni of the School of Allied Health Sciences represent the very best in the complement of ideas, education, and clinical skills offered in service to the people of Texas.
Administration

Board of Regents

Term Expires May 31, 2013
Suzanne Williams Taylor..................................................Student Regent

Term Expires January 31, 2015
Mickey L. Long, Chairman ...................................................... Midland
Nancy Neal ................................................................. Lubbock
John Walker ................................................................. Houston

Term Expires January 31, 2017
Larry K. Sanders, Vice Chairman .......................................... Dallas
Debbie Montford ............................................................. San Antonio
John D. Steinmetz ........................................................... Lubbock

Term Expires January 31, 2019
John Esparza ........................................................................ Austin
L. Frederick “Rick” Francis .................................................. El Paso
Tim Lancaster ................................................................. Abilene

Health Sciences Center

Kent Hance ................................................................. Chancellor
Tedd Mitchell ................................................................. President
Elmo Cavin ................................................................. Executive Vice President for Finance and Administration

School of Allied Health Sciences

Robin Satterwhite, M.B.A., Ed.D., FACHE ................................... Dean
Hal S. Larsen, Ph.D., MT (ASCP), CLS (NCA) ...................... Associate Dean, Chair, Department of Laboratory Sciences and Primary Care
Rajinder Koul, Ph.D., CCC-SLP ........................................... Associate Dean for Research, Chair, Department of Speech, Language, and Hearing Sciences
Steven F. Sawyer, Ph.D., M.P.T. ......................................... Associate Dean for Faculty Development Chair, Department of Rehabilitation Sciences
Lindsay R. Johnson, M.Ed. .................................................. Associate Dean for Admissions and Student Affairs
Lori Rice-Spearman Ph.D. .................................................. Associate Dean of Learning Outcomes and Assessments
Michael J. Keller, MBA. .................................................... Assistant Dean for Learning Technology Chair, Department of Clinic Administration and Rehabilitation Counseling, Program Director Clinical Services Management
Michael Hooten, M.H.A., Ed.D. ......................................... Regional Dean, Amarillo
Tony Domenech, Ed.D., PT OCS, FAAOMPT ..................... Regional Dean, Odessa
Brenda Bobo ................................................................. Director of Administration

Texas Tech University Health Sciences Center
About Our School

TTUHSC Mission

The mission of the Texas Tech University Health Sciences Center is to improve the health of people by providing educational opportunities to students and healthcare professionals, advancing knowledge through scholarship and research, and providing patient care and service.

The Texas Tech University Health Sciences Center fulfills its higher education mission by achieving six strategic goals:

1. Train competent health professionals and scientists
2. Increase externally funded, peer-reviewed research, especially NIH-funded research, and research focused on aging, cancer, and rural health
3. Improve access to quality health care for the TTUHSC’s target populations
4. Prepare health professions students for an increasingly diverse workforce and patient population
5. Provide leadership in the development of partnerships and collaborations to improve community health
6. Operate the TTUHSC as an efficient and effective institution

SOAHS Mission

The mission of the TTUHSC School of Allied Health Sciences is to provide a high-quality, student-centered learning environment for graduate and undergraduate education in the allied health professions; advance knowledge through scholarship and research; and provide clinical services that improve health and quality of life in Texas and the Nation.

As part of a state-supported university system, we serve the people of Texas, with particular emphasis on developing regional solutions to meet the educational and clinical needs of rural communities of West Texas.

SOAHS Vision

To earn regional and national recognition for excellence in graduate and undergraduate allied health sciences education, research and clinical services.

We will progress toward achieving this vision by:

1. Achieving high levels of excellence in teaching, research and clinical service, while fostering the professional and personal competence, growth and success of our students, our faculty and our staff.
2. Providing an environment that values, supports and rewards research and other scholarly activities.
3. Contributing to the improvement of health status and the reduction of health disparities in the communities we serve.
4. Expanding the cultural and ethnic diversity of our student-body, faculty and staff.
5. Remaining responsive to the evolving needs of our students, patients and communities we serve.

**SOAHS Organizational Philosophy**

As a multi-campus, regional element of the TTUHSC education system, we seek to encourage maximum learning and enhance the accessibility of our educational programs and services by applying a variety of innovative educational approaches and technologies.

We seek, through our research and clinical service activities, to contribute positively to improving the general health status and overall quality of life of the people of West Texas, while enhancing our professional and clinical competence.

Our faculty are, first and foremost, student-oriented and teaching-focused. We value activities that enhance teaching effectiveness and learning, while seeking to create an environment conducive to research and effective clinical service.

Our staff are student-oriented professionals who provide high-quality, responsive service to students and faculty. We strive to maintain an empowering environment based on mutual trust, respect and partnership among faculty, staff and students.

We accomplish our mission within the context of the mission, vision and policies of the Texas Tech University Health Sciences Center and its Board of Regents.

**SOAHS Milestones**

1981 - 67th Texas Legislature approves funding for School
1983 - First students accepted (19)
1985 - Full Accreditation received for programs in Physical Therapy, Occupational Therapy, Medical Technology
1991 - Emergency Medical Services program added
1993 - Department of Communication Disorders transferred from TTU, where it had existed since 1928
1994 - Expansion of PT and OT programs to Amarillo and Odessa with extensive reliance on HealthNet
        - Expansion of PT program from B.S. to M.P.T.
1999 - Addition of Physician Assistant Program at Midland
        - Expansion of OT program from B.S. to M.O.T.
        - Approval of B.S., Emergency Medical System Management Program
2000 - Addition of Masters of Athletic Training Program
        - Addition of Masters of Vocational Rehabilitation Program
        - Addition of B.S. in Emergency Medical Systems Management
- Expansion of Physician Assistant Program from B.S. to M.P.A.S.  
- Relocation of Department of Communication Disorders to TTUHSC facilities  
- Relocation of SOAH-Odessa to permanent facilities at TTUHSC-Odessa  
- Approval of Clinical Doctorate in Audiology (Au.D.)  

2001  
- Relocation of SOAH-Amarillo to permanent facility  
- Completion of Physician Assistant Program permanent facility  
- Approval of Center for Brain Mapping and Cortical Studies  

2002  
- Approval / addition of “first-in-nation” M.S., Molecular Pathology (M.S., M.P.)  
- Approval / addition of M.S. in Rehabilitation Sciences (M.S., R.S.)  
- Approval / addition of B.S. in Clinical Support Services Management (B.S., C.S.S.M.)  
- Approval of Center for Rehabilitation Assessment  

2003  
- Approval of School name change to “Allied Health Sciences”  
- Department name changes to Department of Laboratory Sciences and Primary Care, Department of Speech, Language, and Hearing Sciences  

2004  
- Approval / addition of Ph.D., Communication Sciences and Disorders  
- Approval / addition of B.S., Health Science  
- Approval of program name changes; Vocational Rehabilitation to Rehabilitation Counseling; CSSM to Clinical Services Management (C.S.M); MSRS to Clinical Practice Management (C.P.M.)  

2005  
- Approval / addition of Department of Clinic Administration and Rehabilitation Counseling  

2007  
- Expansion of Physical Therapy From masters (M.P.T.) to clinical entry-level doctorate (D.P.T.)  
- CSM program expands to provide a specialty track in Long Term Care Administration with approval from the Texas Department of Aging and Disabilities.  

2008  
- The position of Director of Admissions and Student Affairs, becomes the Assistant Dean for Admissions and Student Affairs.  
- THECB grants SOAHS “planning authority” for Ph.D. in Rehabilitation Science.  
- The Doctorate of Physical Therapy (D.P.T.) is implemented with enrollment of its first cohort of students.  

2009  
- Approval/ addition of Ph.D. Rehabilitation Sciences  
- Approval/ addition of Transitional Doctor of Physical Therapy Pathway (D.P.T.)  
- Approval/ addition of Clinical Laboratory Science Second Degree and Certificate Programs  

2010  
- Physician Assistant facility expansion is completed  
- Enrollment for the Physician Assistant program is increased from 45 to 60 students per cohort  
- First NIH grant obtained by SOAHS Faculty
- Approval of Center name change to “Center for Speech, Language and Hearing Research”

2011
- Major renovation of clinical and research space
- Relocation of SOAHS faculty to 3C lab and office space
- Opened the Health Promotion Research Laboratory on the Amarillo campus
- Fall enrollment exceeds 1300

Accreditation

The Texas Tech University Health Sciences Center is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, doctoral, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the Texas Tech University Health Sciences Center. The Commission should be contacted only if there is evidence that appears to support the institution’s significant non-compliance with a requirement or standard.

A member of the Texas Tech University System, TTUHSC has been accredited by the Southern Association of Colleges and Schools Commission on Colleges as an institution separate from Texas Tech University since 2004. TTUHSC received its reaffirmation of accreditation from SACS-COC in 2009. The next reaffirmation is scheduled for 2019.
General Policies and Procedures

Core Curriculum Requirement

Students who will be earning their first baccalaureate degree from the Texas Tech University Health Sciences Center must satisfy the coursework requirements of the TTUHSC Core Curriculum.

This base of general knowledge provides students with a foundation in the natural and applied sciences, social sciences, mathematics, humanities, visual and performing arts, and the tools of language and thought. The TTUHSC Core Curriculum complies with 1997 Texas legislation that requires each state-supported institution to establish a core curriculum that encompasses “basic intellectual competencies in . . . reading, writing, speaking, listening, critical thinking, and computer literacy.”

These courses or their equivalents may be taken at any regionally accredited college or university and should be completed with a grade of “C” or higher before enrolling at TTUHSC. **Students should choose only Core Curriculum courses that satisfy the requirements of their particular TTUHSC degree program**, as different core courses may be required by different programs.

The TTUHSC Core Curriculum comprises 42 credit hours of course work as stipulated by the Texas Higher Education Coordinating Board.

**TTUHSC Core Curriculum**

**Communication**
- *English 1301 Composition I* 3 hours
- *English 1302 Composition II* 3 hours

**Mathematics**
Courses with prefix MATH 3 hours

**Natural Sciences**
Courses with prefixes BIOL, CHEM, GEOL, PHYS, or other natural sciences 6 hours

**Visual and Performing Arts**
Any art, music, drama, or theatre arts course 3 hours

**Humanities**
Any literature, philosophy, modern or classical language/literature, or cultural studies course 3 hours

**Social and Behavioral Sciences**
- *HIST 1301 United States History I* 3 hours
- *HIST 1302 United States History II* 3 hours

*(Students may substitute 3 credit hours of Texas*

1  http://www.thecb.state.tx.us/AAR/UndergraduateEd/fos_assumpdef.cfm
2  http://info.sos.state.tx.us/fids/19_0004_0028-1.html
*History for 3 credits of United States History*

*GOVT 2301 American Government I 3 hours
*GOVT 2302 American Government II 3 hours
Any psychology, sociology, or anthropology course 3 hours

**Core Curriculum Electives**

Chosen from the fields of study listed above 6 hours

*Course numbers listed are based on the Texas Common Course Numbering System (TCCNS). Check with your academic institution to verify the course number that corresponds with the TCCNS number.*

---

**Transfer of Credits**

The School of Allied Health Sciences will accept transfer hours from fully accredited U.S. two year colleges and universities. The School traditionally accepts 66 transfer hours; however, additional hours may be accepted upon program approval.

**Second Bachelor’s Degree**

No second bachelor’s degree is conferred until the candidate has completed at least 24 semester hours—exclusive of credit by examination—in addition to the courses counted toward the first bachelor’s degree. A second bachelor’s degree sought by a student who did not graduate from a public Texas university must include the required Core Curriculum.

---

**Course Drop Limits**

Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education”. This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education (in the State of Texas) as first-time freshmen in fall 2007 or later.

Any course that a student drops is counted toward the six-course limit if (1) the student was able to drop the course without receiving a grade or incurring an academic penalty; (2) the student’s transcript indicates or will indicate that the student was enrolled in the course; (3) the student is not dropping the course in order to withdraw from the institution. Exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the responsibility of the student to establish that good cause.

Contact the SOAHS Office of Admissions and Student Affairs personnel for more information before you drop a course.
Any student affected by this statute that has attended or plans to attend another institution of higher education (in the State of Texas) should become familiar with that institution’s policies on dropping courses.

**Definition of a Semester Credit Hour**

The SOAHS defines semester credit hours for traditional face-to-face lecture courses using the Carnegie and Federal guidelines, namely that 3 SCH should contain 15 weeks of instruction (45 contact hours) plus a week for final examinations so that such a course contains 45-48 contact hours depending on whether or not there is a final examination.

Clinical practicum and lab courses are assigned credit hours based on learning objectives rather than the standard contact hour requirements. In such cases, courses are reviewed and approved through a formal school level faculty review process (Academic Affairs Committee) that evaluates the course and its learning outcomes and judges that the course does have learning outcomes comparable to a traditional lecture-based course.

Semester credit hours for online and/or hybrid courses are calculated so as to be equivalent to that of a traditional face-to-face course, (i.e., 3 hours of student engagement per week for 3 semester-credit hour course).

**Credit for Core Requirements Taken at Another Institution**

In accordance with the rules mandated by the Texas Legislature concerning the transfer of core curriculum: “If a student successfully completes the 42 semester credit hour core curriculum at an institution of higher education, that block of courses may be transferred to any other institution of higher education and must be substituted for the receiving institution’s core curriculum. A student shall receive academic credit for each of the courses transferred and may not be required to take additional core curriculum courses at the receiving institution unless the board has approved a larger core curriculum at that institution.” (Section 5.402, d)

**Credit for Educational Courses Completed in the Armed Forces**

Credit may be gained for formal service school courses completed in the armed services after evaluation of official documents by the TTUSHC Program Director. The Program Director, in conjunction with the TTUHSC SOAHS Office of Admissions and Student Affairs will decide if credit awarded for such courses will be applied toward degree requirements.
Credit By Examination for the Prerequisite Courses

The School of Allied Health Sciences encourages students to use previous learning experiences. Students will be given the opportunity to receive credit by examination in courses where proficiency may be determined by examination. Students may demonstrate proficiency in certain subject areas through various programs. A grade of Pass (P) will be given on the examination, but the grade will not be considered in determining grade-point averages. Course credit earned by examination is recorded by the TTUHSC Registrar on the student’s transcript. Course credit by examination may not be used to satisfy the 30-hour minimum residence credit requirement for graduation. Credit by examination must be completed before the course begins or within the first twelve class days of the course. Credit by examination does not waive tuition and fees for the course.

A student may earn prerequisite course credit by examination by three separate programs. These include:

1. Specified College Board (CB) Achievement Tests
2. CB Advanced Placement Examinations, which are part of the Advanced Placement programs (AP) available in a limited number of secondary schools
3. Specified subject examinations of the CB College Level Examination Program (CLEP)

Tests on courses in the credit-by-examination program which are prerequisites for higher level courses must be completed and scored before registering for advanced courses. Students may not receive credit by examination for a course if they have already passed a more advanced course in the same subject area. The deadline for registering to take the CB Achievement and CLEP examinations either at Texas Tech University or at a national testing center is typically 4-6 weeks before the scheduled test date. Generally, test results or scores are mailed 4-5 weeks after the test date. Information regarding test dates and fees for national standardized examinations are available from the Testing and Evaluation Division at Texas Tech University. It is the student’s responsibility to request that his or her CB test scores be sent to the School of Allied Health Sciences. Information concerning each of the testing programs follows.

Credit for College Board Achievement Tests

Achievement Tests are part of the College Board Admissions Testing Program. Each year there are several national administrations of the SAT Subject Exams. Students should plan to take the specified tests at national testing centers during their senior year of high school at an early testing date in order that scores may be reported to the university by June. For more information, view www.collegeboard.com.
Credit for CB Advanced Placement Program Examinations (APP)

The Advanced Placement Program Examination is the final examination for a nationally standardized course offered in a limited number of secondary schools under the auspices of the CB Advanced Placement Program. The objective of the APP is to allow students to begin work toward college credit while still in high school. Students should check with their high school counselor or principal as to the availability of the APP examinations in their school. The APP is offered once a year during May at participating high schools.

Credit for CB College Level Examination Program Examinations (CLEP)

Under the College Level Examination Program, the School of Allied Health Sciences will award credit only for specified examinations. As with the other CB testing programs, a student may attempt a CLEP examination at a national CLEP testing center before enrolling and have the scores reported to the School of Allied Health Sciences. These examinations are offered on the Texas Tech University campus during Freshman Orientation held each summer, several times each year to students currently enrolled, and monthly at national CLEP test centers. Further information concerning the CLEP tests may be obtained by contacting College Level Examination Program (Box 1821, Princeton, NJ 08540), or the Testing and Evaluation Division of Texas Tech University.

Credit by Program Exam

Individuals who have completed an educational program in medical laboratory technology and are certified by a nationally recognized certification agency may be eligible to receive credit for some junior level courses in Clinical Laboratory Science. Determination for such credit will be made by the program director. Students seeking to take Credit by Examination must have been officially accepted in the School of Allied Health Sciences, and the prerequisites for courses must be met prior to taking the examination for credit. The student must file a petition with the program director at least 30 days prior to taking the examination. The program will administer the examination no later than one week prior to the semester in which the challenged course is offered. Credit (CR) or no credit (NCR) will be reported to the Registrar’s Office and entered on the official transcript. Unsuccessful students (NCR) will be required to enroll in the course at the first opportunity. A student may challenge a course only once. The Department of Speech, Language and Hearing Sciences does not offer credit by examination.

Applying for Admission

Students admitted to Texas Tech University should not consider themselves also admitted to the School of Allied Health Sciences. For admission to any School of Allied Health Sciences program, the online application must be completed and submitted by the program deadline. Each program has its own applicant pool, from which the most qualified students are chosen for an admission review.
Those students who best meet the stated qualifications and prerequisites of the
individual programs will be accepted as students of TTUHSC and the School of
Allied Health Sciences. Students who successfully complete the program will
receive one of the following degrees from the Texas Tech University Health
Sciences Center: a Bachelor of Science in Clinical Laboratory Science, Speech,
Language and Hearing Sciences or Clinical Services Management; a Master
of Athletic Training, a Master of Science in Speech-Language Pathology, a
Master of Science in Molecular Pathology, a Master of Occupational Therapy,
a Master of Physician Assistant Studies, a Master of Science in Clinical Practice
Management, a Master of Rehabilitation Counseling; a Doctor of Audiology, a
Doctor of Physical Therapy, a Doctor of Science in Physical Therapy, or a Ph.D.
in Communication Sciences and Disorders or Rehabilitation Sciences. After
graduation, a certification or licensure examination may be required.

**Deadlines for application to the individual programs are:**

**TRADITIONAL PROGRAMS**

**Athletic Training**
- Early Admission ........................................... October 15
- Traditional Admission ................................. February 1

**Audiology**
- Early Admission ........................................... November 1
- Traditional Admission ................................. February 1

**Clinical Laboratory Science (Lubbock Campus)** ........................ March 1

**Communication Sciences and Disorders (Ph.D.)**
- Fall Semester ........................................ April 30
- Summer Semester ................................ April 30
- Spring Semester ........................................ October 15

**Molecular Pathology** ........................................ February 1

**Occupational Therapy**
- Early Admission ........................................ October 1
- Traditional Admission ................................. December 15

**Physician Assistant** ........................................ December 1

**Physical Therapy (D.P.T.)**
- Traditional Admission ................................ October 1

**Rehabilitation Sciences (Ph.D.)**
- Summer Semester ................................ February 1
- Fall Semester ........................................ April 30
- Spring Semester ........................................ October 15

**Speech, Language, and Hearing Sciences (Undergraduate)** .... March 1

**Speech-Language Pathology**
- Traditional Admission ............................... January 15

**DISTANCE PROGRAMS**

**Clinical Laboratory Science (Second Degree and Certificate Programs)**
- Fall Semester ........................................ June 1

**Clinical Services Management**
Summer Semester .............................................. May 1
Fall Semester .................................................. August 1
Spring Semester ............................................. December 1

Clinical Practice Management
Summer Semester .............................................. May 1
Fall Semester .................................................. August 1
Spring Semester ............................................. December 1

Physical Therapy (Sc.D.)
Fall Semester .................................................. June 1
Summer Semester ............................................. March 15

Transitional Doctor of Physical Therapy
Fall Semester .................................................. August 1
Spring Semester ............................................. December 1
Summer Semester ............................................. May 1

Rehabilitation Counseling
Fall Semester .................................................. June 1
Spring Semester ............................................. October 1

Qualifying for Admission
A student who wishes to enroll in the School of Allied Health Sciences must fulfill the general admissions criteria contained in this catalog, as well as the specific criteria of each program. Information or applications to any Allied Health Sciences program may be accessed via the Texas Tech University Health Sciences Center, School of Allied Health Sciences’ web site at www.ttuhsc.edu/merlin.

Immunizations
Students in the School of Allied Health Sciences born on or after January 1, 1957, must have had the following immunizations:

- Adult Tetanus, Diphtheria, Acellular Pertussis (Tdap)
- Two Doses of Measles, Mumps, Rubella
- Three shot series of Hepatitis B
- PPD-TB Skin Test (within 3 months of matriculation date, must be renewed annually)
- Varicella history signed by physician, or 2 doses of the Varicella Vaccine, or a titer proving immunity
- Meningococcal (MCV) Adults 29 years of age or younger (within past 5 years)
- Selected programs may have additional requirements based on current CDC (Center for Disease Control) requirements/recommendations for health-care providers.

It is the student’s responsibility to obtain and maintain proof of all required immunizations. The cost of immunizations is also the student’s responsibility.
Criminal Background Check

The TTUHSC School of Allied Health Sciences requires a Criminal Background Check (CBC) after admission but prior to matriculation. CBCs allow the university to evaluate whether TTUHSC students are qualified, eligible, and possess the character and fitness to participate in clinical care and/or clinical rotation sites at TTUHSC or participating institutions.

Expectations of the Student

Students studying in the School of Allied Health Sciences must complete the professional curriculum within the prescribed school and departmental academic and calendar guidelines. Allied Health Sciences students are required to observe departmental, school, and institutional regulations and requirements. Allied Health Sciences students are expected to maintain a professional attitude toward the patients to whom they will provide healthcare, and toward the colleagues with whom they learn and work. Class attendance in Allied Health Sciences programs is mandatory. Only the specific course instructor can excuse absences. Other policies concerning departmental expectations of Allied Health Sciences students are contained in the student handbooks of the respective departments. Students will be held responsible for both the information contained in this catalog and in the departmental handbooks. In addition, students are expected to abide by all stated school or departmental policies and regulations.

Student Honor Code

Students in the School of Allied Health Sciences will not lie, cheat or steal or tolerate those who do.

Student Conduct

Responsible citizenship among college students includes honesty and integrity in class work; regard for the rights of others; and respect for local, state, and federal laws as well as campus standards. Specific standards concerning the rights and responsibilities of students and registered student organizations at TTUHSC are contained in the “Code of Conduct” and Student Handbook. Students are expected to become thoroughly familiar with and abide by these standards. The TTUHSC Student Handbook Code of Professional Conduct may be obtained from the Office of Student Services, 2B400, Student Services, 803.743.2300, or online at www.ttuhsc.edu/studentservices/documents/HSC_Handbook_2012-2013.pdf

Student Organizations

TTUHSC and the School of Allied Health Sciences offer a variety of student organizations. The School sponsors a chapter of Alpha Eta, the national honorary society in Allied Health Sciences, for students of the School who have distinguished themselves academically. Each department within the
School of Allied Health Sciences has a student group organized for student support and participation in professional activities specific to the department. For more information concerning organizations open to students at TTUHSC, or to register a new organization, please contact the TTUHSC Office of Student Services, www.ttuhsc.edu/studentservices.

**Student Liability**

An essential part of allied health sciences education is the clinical experience. Students in all departments of the School of Allied Health Sciences are placed in clinical settings outside the institution. Because allied health sciences students will practice patient care under the supervision of graduate professionals, students are required to purchase liability insurance coverage. A nominal yearly charge is included in student fees paid at registration.

**Student Healthcare**

Students who pay the Medical Services Fee and are enrolled in the School of Allied Health Sciences are eligible to receive healthcare through the Department of Family Medicine at TTUHSC. However, services may vary from campus to campus. Information concerning student health services can be obtained from the TTUHSC Student Services Office, www.ttuhsc.edu/studentservices.

**Student Hospitalization Insurance Coverage**

Students are recommended to have medical/hospitalization insurance coverage while enrolled as a student in the School of Allied Health Sciences. It is the student’s responsibility to obtain and maintain medical/hospitalization insurance through the provider of their choice. TTUHSC offers such coverage. Information concerning medical/hospitalization insurance can be found at www.ttuhsc.edu/studentservices.

**Leave of Absence**

In extreme circumstances it may be necessary for a student to be absent from class for an extended time. The School of Allied Health Sciences may grant a leave with the approval of the department chair and the consent of the Dean. For information concerning a leave of absence, contact the School of Allied Health Sciences Office of Admissions and Student Affairs.

**Alcohol/Drug Education and Prevention**

Consistent with its mission, the School of Allied Health Sciences and TTUHSC will enforce the provisions of the “Texas Controlled Substance Act” and the “Texas Dangerous Drugs Act.” The School of Allied Health Sciences and TTUHSC are committed to helping students in health professions make responsible and informed decisions regarding the misuse of drugs and alcohol. The School encourages all students to make use of the education programs offered by the Counseling Center at Texas Tech University.
Tobacco-Free Environment

TTUHSC prohibits tobacco use in a TTUHSC facility or anywhere on the grounds of any TTUHSC facility to include a leased facility/space. Violations of this policy are subject to disciplinary action as stipulated in HSC Operating Policy and Procedure 70.31, as appropriate. For more information regarding the Tobacco-Free Environment or the Tobacco Intervention Program please visit the TTUHSC web site at www.ttuhscc.edu.

Registration of Convicted Sex Offenders

Senate Bill 871 passed in the recent regular Texas Legislative Session made changes to Chapter 62, Code of Criminal Procedure, and now requires that all sex offenders register with local law enforcement authorities. Those who intend to be students or attend classes on or at any campus of the Texas Tech University System are required to register with the campus police department in accordance with article 62.064 of the Texas Code of Criminal Procedure within seven (7) days of beginning school. In addition, all such sex offenders who intend to volunteer, work, or carry on a vocation (including full-time or part-time employees and employees of outside contractors) on any campus of Texas Tech University System for a consecutive period exceeding fourteen (14) days or an aggregative period exceeding thirty (30) days in a calendar year are required to register with the campus police department within seven (7) days of beginning work on any campus of the Texas Tech University System. In addition, all such sex offenders are required to notify campus police within seven (7) days of terminating attendance or work on any campus of the Texas Tech University System. All such sex offenders who are currently students, employees, volunteers, or contractor employees must register with campus police. Failure to register, as required, may subject such individuals to criminal penalties. Questions about this new requirement should be addressed to the TTU Police Department, 2901 4th St., Lubbock, TX 79409, (806) 742-3931.

The Texas Tech Police Department is located at 413 Flint Avenue and is operated 24 hours a day, seven days a week. The department provides police services and security for the entire Texas Tech community, an area much larger and more populated than many towns in Texas. The department phone number is 806.742.3931 or, in an emergency call 9-911.

The Texas Tech Police Department employs 52 officers and 39 civilian employees. The officers are licensed by the Texas Commission on Law Enforcement Standards and Education and are fully commissioned.

The Texas Tech Police Department employs Crime Prevention Specialists available to offer presentations on a number of topics, including personal safety, burglary/theft prevention, sexual assault awareness, and drug and alcohol awareness programs. In addition, these officers will discuss crime prevention with any student, faculty or staff member.
General Information

School of Allied Health Sciences

The department posts information and crime statistics online at www.depts.ttu.edu/ttpd.

**Withdrawal from the School of Allied Health Sciences**

A student who wishes to withdraw from the School of Allied Health Sciences must first meet with program director then contact the Office of Admissions and Student Affairs to receive an Official Withdrawal Form. This form must be initialed by faculty or staff from specific areas within the Health Sciences Center. After the withdrawal form is completed, it must be returned to the Office of Admissions and Student Affairs for processing. Students who fail to complete this self-initiated withdrawal process within 5 class days will be subject to administrative withdrawal and/or dismissal from the School of Allied Health Sciences.

**Students with Disabilities**

It is the policy of the School of Allied Health Sciences to conduct educational programs in a place and manner accessible to individuals with disabilities, and to make reasonable modifications and accommodations necessary to achieve this purpose. Students who need special accommodations should be proactive and contact TTUHSC Office of Student Services, (806) 743.2300, immediately after accepting a class position. The student will be asked to complete an application requesting accommodation and to supply documentation necessary to support the application. For additional information on obtaining disability services, visit www.ttuhs.edu/studentservices.

**Student Records**

The School of Allied Health Sciences conforms to the guidelines set forth in the Family Educational Rights and Privacy Act of 1974, and the Texas Open Records Act. Students may limit public availability of personal and demographic information by making this request to the TTUHSC Registrar.

**Student Debts**

The School of Allied Health Sciences and TTUHSC will not be responsible for debts incurred by students or student organizations, nor will the School or TTUHSC assume the roles of collecting student debts or serve as arbitrator between students and creditors.

**Change of Address**

Students are required to maintain current contact information by making changes on their portal at http://portal.texastech.edu. All correspondence, including financial aid refund checks, will be mailed to the address provided by the student.
Interprofessional Education

Beginning with the academic year 2013-2014, all incoming SOAHS students will be required to participate in the Foundations for Interprofessional Collaborative Practice course.

**IPAH 1001/1002/1003 Foundations for Interprofessional Collaborative Practice:** An introduction to broad concepts related to four interprofessional core competencies for healthcare providers. Online modules include: (a) roles/responsibilities, (b) interprofessional communication, (c) teams/teamwork, and (d) values/ethics for interprofessional practice. No textbook is required. This course is typically completed within the first year of enrollment in the SOAHS.

Graduation

Students must be enrolled at Texas Tech University Health Sciences Center in the term in which they plan to graduate. Students planning to graduate must complete an Intent to Graduate form.
Admission Policies and Requirements

Admission Policy
Applicants for all programs in the School will be reviewed on an individualized and holistic basis that takes into account each applicant’s demonstrated academic ability; commitment to service; potential for success in and contribution to the profession; and potential for contribution to the overall student-body diversity of the class and the School. Admissions criteria generally will include a consideration of prerequisite course grade-point-average (GPA); overall GPA; Graduate Record Examination (GRE) scores (where applicable); personal statement or essay (where applicable); letters of recommendation (where applicable); honors and awards received; extracurricular and community service activities; and, where applicable, the results of the personal interview (where applicable). Admissions requirements and weights assigned to program-specific criteria will be developed for each program.

Applicants to the Professional Programs
Applicants to the professional programs must have completed all prerequisite courses and met all other conditions of admission before entering the first professional program course. Acceptable minimum grade point averages vary with program and are stated in the appropriate section of this catalog. A personal interview may be required of each applicant.

Prerequisite Course Credits
All questions of course acceptability must be referred to the academic advisors in the School of Allied Health Sciences Office of Admissions and Student Affairs. All college level, non-vocational courses completed at regionally accredited colleges and universities (not including trade or technical schools) will be evaluated for acceptance of prerequisite course credit by the School of Allied Health Sciences Office of Admissions and Student Affairs. In general, credit hours with a grade of C or higher will be accepted. However, evaluation of specific courses is required and decisions made by the program are final. Each student will be notified of acceptance of prerequisite courses. If the required science courses were completed seven or more years prior to admission into the School of Allied Health Sciences, the student may be required to retake courses.

Readmission
A former student who seeks to be readmitted to a program in the School of Allied Health Sciences must have withdrawn in good academic standing and meet all current admissions and degree requirements for the semester of readmission.
## Applicant Pool

Applicants will be considered for admission only when completed application forms and appropriate supporting documents have been received. All applicants are carefully evaluated by the respective program admissions committees concerning qualifications and potential for successful completion of a professional curriculum. School of Allied Health Sciences departments may also waive required courses based on experiential learning.

## International Students

### Transcripts

Applicants to all programs must have transcripts from any international college or university evaluated by a Foreign Transcript Evaluation Service. The evaluation must be a course-by-course evaluation of all academic work completed by the applicant. The Office of Admissions can provide a list of acceptable evaluation agencies.

### TOEFL/IELTS

Students whose native language is not English must complete an English language proficiency exam. The official Test of English as a Foreign Language (TOEFL) scores or official International English Language Testing Service (IELTS) scores, when applicable. Minimum acceptable scores for the TOEFL are 213 on the computer-based test, 79 on the internet-based test, and 550 on the paper test. The minimum acceptable IELTS score is 6.5. This test is waived only for graduates of U.S. universities or universities in countries in which the native language is English.

Official TOEFL score reports or official IELTS results are required from international applicants unless the student graduated from a high school within the United States with a minimum of 2 years attendance, or has attended a college or University in the United States for a minimum of 2 years.

If an applicant for admission by a program in the School of Allied Health Sciences, the TTUHSC Registrar’s Office will then determine if there is enough financial information to issue an I-20. If there is adequate financial information, the I-20 will be issued by the Office of International Programs and mailed to the applicant. If financial information is needed, it should be in the form of a bank statement converted to U.S. currency. A statement of support from the sponsor must accompany the bank statement. This statement should be sent to the TTUHSC Registrar’s Office.
TSA Requirements
The Texas Success Initiative (TSI) has replaced the Texas Academic Skills Program (TASP). Under the Texas Success Initiative, any student who is not exempt is required to take one of the following tests to assess basic skills in the areas of reading, writing, and mathematics: THEA, Accuplacer, Compass, or Asset. Students may be exempt if they have high ACT, SAT, or TAKS test scores or have earned an associate’s or baccalaureate degree (www.reg.ttu.edu gives other exemptions) at an accredited Texas public institution of higher education or from a regionally accredited out of state institution. Students may test with Accuplacer through Academic Testing Services, Room 242 West Hall, (806) 742-3671. Students will need to present their driver’s license or passport for identification purposes. Once tested, students must submit their test scores to the TSI Compliance Office, 116 West Hall. A practice Accuplacer test can be taken at the Web site listed above. For THEA test registration or to take a practice THEA test, go to www.thea.nesinc.com. Students who have tested but not attained the minimum scores on all three sections of the test are required to obtain TSI advising before registration and enroll continuously in formal skills development through the TSI Basic Skills Office, 806.742.3242. To ask questions about your status with respect to the Texas Success Initiative, contact the TTUHSC School of Allied Health Sciences Admissions Office at 806.743.3220.

ADMISSIONS CHECKLIST

✓ Be certain you will be able to meet all admission requirements by the class starting date.
✓ Application materials may be accessed via the Texas Tech University Health Sciences Center, School of Allied Health Sciences’ web site at www.ttuhsc.edu/sah.
✓ Complete all admission materials and mail to the Texas Tech University Health Sciences Center, Office of the Registrar at 3601 4th Street, Mail Stop 8310, Lubbock, Texas, 79430.
✓ Have official transcripts of all college coursework sent to the above address. Make certain that the transcripts are mailed to the above address only. Do not send transcripts to Texas Tech University; this will delay processing of your application. It is the student’s responsibility, before the admissions deadline for each program, to see that updated transcripts containing the applicant’s most recently completed coursework have been received.
✓ Have documentation of successful completion of the TSI sent to the Texas Tech University Health Sciences Center, Office of the Registrar, if it is not included with transcripts.
✓ It is the student’s responsibility to confirm that all necessary application materials have been received before the closing date for receiving application materials.

NOTE: All applicants with completed applications will be notified in writing as to the final status of their application after review by program admissions committees. Interviews and additional tests may be required before final admission decisions are reached.
Financial Information

Financial Aid
Grants and loans are available through the TTUHSC Financial Aid Office. All students interested in receiving grants and/or loans must complete a Free Application for Federal Student Aid (FAFSA) and send it to the TTUHSC Financial Aid Office. On-line FAFSA applications are available at www.fafsa.ed.gov.

NOTE: Financial aid offers from other colleges and universities, including TTU, are not transferable to TTUHSC. Separate financial aid applications are required for TTUHSC. For further information regarding financial aid, please contact:

TTUHSC Financial Aid Office
3601 4th Street, Suite 2C 400
Lubbock, TX 79430
806-743-3025
www.ttuhsc.edu/financialaid

Scholarships
The School of Allied Health Sciences has many scholarships available, administered through the Office of Admissions and Student Affairs. Scholarships are designed to reward, encourage and assist students in pursuing academic excellence and leadership. Scholarships are awarded on the basis of academic achievement (e.g. grade point average and GRE scores) extracurricular activities (e.g. involvement, volunteer history and employment), personal interview, written essay and in some cases, financial need. Some scholarships may have additional, very specific qualifications (county of residence, etc.)

A non-resident student may be eligible to pay in-state tuition rates if the student receives an institutional competitive scholarship or scholarships totaling at least $1,000 for the academic year and/or summer for which the student is enrolled. Most scholarships are considered “competitive” in nature. However, not all meet the requirements neccesary to waive out-of-state tuition for non-resident recipients.
Tuition and Fees

Texas Tech University Health Sciences Center reserves the right, without notice in this catalog, to amend, add to, or otherwise alter any or all fees, rates or other charges set forth herein by action of the Board of Regents of Texas Tech University or the Texas State Legislature, as the case may be.

Texas residents will be charged tuition at a rate of $175 per semester credit hour. Non-resident and foreign students will be charged tuition at a rate of $529 per semester credit hour. Both resident and non-resident students enrolled in graduate programs will be charged an additional $50 per semester credit hour.

To be granted status as a resident of Texas for educational purposes, proper documentation must be on file in the TTUHSC Office of the Registrar. Each student will be required to complete a written residency oath upon applying. For detailed information regarding residency status, contact the TTUHSC, Office of the Registrar. Foreign students seeking entry into the School of Allied Health Sciences must be processed through the International Admissions Counselor at Texas Tech University.

Fee Table*

Full-time student enrolled in 15 hours

Tuition
- Resident Undergraduate ........................................ $2,625.00
- Resident Graduate ............................................ $3,375.00
- Non Resident Undergraduate ................................ $7,935.00
- Non Resident Graduate ........................................ $8,685.00

Student Services Fee ............................................. $132.00
Placement Guarantee Fee (All 1st year students, non-refundable) ... $100.00
Student Malpractice Insurance Fee ($61 for PA students) ............ $14.50
Microscope Usage Fee (CLS Juniors and Seniors annually) ........... $50.00
Medical Services Fee ........................................... $70.00
Screening and Immunization Fee - (Fall only) ...................... $50.00
Recreation Center Fee .......................................... $75.00
Identification Card Fee ........................................ $5.00
Informational Technology Fee ..................... $150.00
Student Athletic Fee ........................................ $57.20
Record Processing Fee ........................................ $10.00
Synergistic Center Fee (Student Union Fee) ......................... $5.00
International Education Fee ................................ $4.00
Graduation Fee ($65 for graduate programs; $75 doctoral) ....... $65.00-$75.00
($50 for undergraduate programs)

Total Tuition and Fees for Semester (estimate)
- Resident Undergraduate ........................................ $3,347.70
Resident Graduate .................................................. $3,947.70
Non-Resident Undergraduate ................................... $8,657.70
Non-Resident Graduate ........................................... $9,257.70

**Summer Session**

**Duration of 10 weeks or longer**  
*Full-time student enrolled in 7 hours*

**Tuition**
- Resident Undergraduate ................................... $1,225.00
- Resident Graduate ........................................... $1,575.00
- Non-Resident Undergraduate ................................ $3,703.00
- Non-Resident Graduate ...................................... $4,053.00
- SAH Anatomy Fee (AT, OT, PA & PT only) .............. $300.00
- Student Services Fee ........................................ $132.00
- Medical Services Fee ........................................ $70.00
- Recreation Center Fee ....................................... $75.00
- Identification Card Fee ..................................... $5.00
- Informational Technology Fee ............................... $70.00
- Record Processing Fee ...................................... $10.00
- Synergistic Center Fee (Student Union Fee) ............ $5.00
- International Education Fee ................................. $4.00

**Total Tuition and Fees for Summer Semester (estimate)**
- Resident Undergraduate .................................... $1,896.00
- Resident Graduate ............................................. $2,246.00
- Non-Resident Undergraduate ............................... $4,374.00
- Non-Resident Graduate ...................................... $4,724.00

*These fees may not represent all costs incurred to students. Many courses within each program have course fees that will be applied to tuition as necessary. Students on regional campuses get appropriate fees waived.*

**Distance Learning Tuition and Fees**

**Clinical Laboratory Science (Second Degree & Certificate)**

Nonresident student residing outside of the State of Texas enrolled in a distance learning program pay a fee of $250 per credit hour, which is $750 per three hour course. A Record Processing Fee of $10 will also be assessed each semester. Texas residents pay tuition at a rate of $175 per semester credit hour, which is $525 per three hour course, and appropriate fees.

**Clinical Services Management**

Nonresident student residing outside of the State of Texas enrolled in a distance learning program pay a fee of $250 per credit hour, which is $750 per three hour course. A Record Processing Fee of $10 will also be assessed each semester.
Texas residents pay tuition of $175 per credit hour, which is $525 per three hour course, and appropriate fees.

**Clinical Practice Management**
Nonresident student residing outside of the State of Texas enrolled in a distance learning program pay a fee of $250 per credit hour, which is $750 per three hour course. A Record Processing Fee of $10 will also be assessed each semester. Texas residents pay tuition of $225 per credit hour, which is $675 per three hour course, and appropriate fees.

**Rehabilitation Counseling, Doctor of Science in Physical Therapy, and Transitional Doctor of Physical Therapy Pathway**
Nonresident student residing outside of the State of Texas enrolled in a distance learning program pay a fee of $300 per credit hour, which is $900 per three hour course. A Record Processing Fee of $10 will also be assessed each semester. Texas residents pay tuition of $225 per credit hour, which is $675 per three hour course, and appropriate fees.

**Refund of Tuition and Fees**

**Refund Policies (Institution and Title IV Withdrawal/Refund Policies)**
Detailed information about the impact of decreasing course load on:
- Institutional Refund Policy - All students who withdraw from TTUHSC or drop all courses during a term
- Additional considerations for students who received financial aid and withdraw from TTUHSC or drop all courses during a term

**Institutional Refund Policy**
Refund Policies for Tuition and Fees. Texas Education Code, Section 54.006, provides the amount of tuition and fees to be refunded to students who drop courses or withdraw from the institution. Class day count is based on the official institution calendar for the school, not the specific course dates.

Students who drop a course, but remain enrolled at the institution will be refunded at the following rate:

<table>
<thead>
<tr>
<th>Term</th>
<th>Class Day</th>
<th>% of Refund of Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer - More than 5 weeks but less than 10 weeks in duration</td>
<td>1st class day through 4th class day</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>After the 4th day of class</td>
<td>None</td>
</tr>
<tr>
<td>Fall, Spring or Summer - Duration of 10 weeks or longer</td>
<td>1st class day through 12th class day</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>After the 12th day of class</td>
<td>None</td>
</tr>
</tbody>
</table>
Students who withdraw from the institution (zero semester credit hours) are required to pay tuition and fees according to the following schedule based on their official withdrawal date:

<table>
<thead>
<tr>
<th>Term</th>
<th>Class Day</th>
<th>% of Refund of Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer - More than 5 weeks but less than 10 weeks in duration</td>
<td>• Before the 1st class day</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>• 1st, 2nd, or 3rd class day</td>
<td>80%</td>
</tr>
<tr>
<td></td>
<td>• 4th, 5th, or 6th class day</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>• 7th class day or later</td>
<td>None</td>
</tr>
<tr>
<td>Fall, Spring or Summer - Duration of 10 weeks or longer</td>
<td>• Before the 1st class day</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>• 1st five class days</td>
<td>80%</td>
</tr>
<tr>
<td></td>
<td>• 2nd five class days</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td>• 3rd five class days</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>• 4th five class days</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>• 21st class day and after</td>
<td>None</td>
</tr>
</tbody>
</table>

**Students who withdraw from TTUHSC or drop all courses during a term that receive(d) financial aid**

It’s important for students who receive financial aid and withdraw or drop all courses during the term to be aware of the refund policies and to understand the impact they will have on the aid released and the continued financial aid eligibility. Current refund policies for students who withdraw or drop all courses during a term are determined by the Higher Education Title IV refund regulations.

Federal Refund and Repayment calculations must be performed for students who receive Title IV (Pell, FSEOG, Perkins and/or Stafford Loans) funds and officially withdraw from all courses, drop out of all courses, are expelled, take an unapproved leave of absence, or fail to return from an approved leave of absence prior to the 60% date of the term. All “unearned aid” must be returned to the federal aid programs as determined by the Federal Refund and Repayment calculations.

a. The requirements for Title IV program funds are separate from the university refund policy. As such, you are responsible for unpaid institutional charges remaining after the refund calculation. You are also responsible for charges/balances created by the returning of Title IV program funds that the school was required to return.

b. If you have questions about your Title IV program funds, you can call the Federal Student Aid Information Center at 1-800-4-FEDAID(1-800-433-3243). TTY users may call 1-800-730-8913. Information is also available on Student Aid on the Web at www.studentaid.ed.gov.
In order to keep all the financial aid issued in each term, students must be enrollment for at least 60% of the term. After this point in the term students have earned 100% of the Title IV funds released for the term. Therefore, it is in your best interest to maintain attendance and complete at least one class each term that you receive federal aid to avoid repayment of funds.

How the calculation works:
1) Number of days attended ÷ Days in semester = % of semester completed
2) Total $ disbursed X % completed = Earned $
3) Total $ disbursed - Earned $ = $ to be returned

Once it is determined that you owe money back to any of the federal aid programs, you will be ineligible to receive further federal aid at TTUHSC or any other institution, until this debt is cleared.

**Text Books and Supplies**

The cost of books and supplies will vary with the different curricula. School of Allied Health Sciences students can expect to pay approximately $300-$500 per semester for books and supplies. Some professional students will also be required to purchase lab coats and accessories for course work at TTUHSC.
The Field of Speech, Language, and Hearing Sciences

A communication disorder is anything that interferes with speech, language, or hearing. People with communication disorders comprise the largest population of Americans with disabilities. One in six Americans has some kind of communication disorder. To meet the needs of these people, speech-language pathologists and audiologists utilize behavioral, cognitive, physiologic, and technological procedures to assess and treat speech, language, swallowing, hearing, and balance problems. Speech-language pathologists and audiologists employ an interdisciplinary approach to treatment and work closely with a full spectrum of professionals to treat the patient’s communicative needs.

Speech-language pathologists specialize in prevention, identification, evaluation, treatment, and rehabilitation of speech, language, and swallowing disorders. Their work involves conducting research; treating numerous communication disorders, including children with speech-language disorders, people who stutter, stroke survivors, and persons who have swallowing problems; and instructing various others, such as actors and singers, in the preservation of their voices. Audiologists assess and treat individuals who are challenged by hearing impairments or balance problems. They test and diagnose hearing disorders, prescribe and dispense hearing aids and assistive listening devices, help prevent hearing loss, and conduct research, among many other professional duties.

Four years of undergraduate education are required. For speech-language pathology, two years of graduate study followed by a Clinical Fellowship are required. The Doctor of Audiology degree is four years of graduate work, three in clinical coursework and one clinical externship year. Graduates of professional programs must pass national examinations before earning certification. Both speech-language pathologists and audiologists are required by most states to earn a master’s or doctoral degree from a program accredited by the American Speech-Language-Hearing Association (ASHA). In most states, a professional license is also required. For those interested in the scientific study of communication and its related disorders, a doctoral degree is generally required.

Department Description

The Department of Speech, Language and Hearing Sciences is the oldest such program in the entire Southwestern United States. It began at Texas Tech in 1928, and today it educates approximately 150 undergraduate students and 120 graduate students per year. The department offers study in four degree programs: Bachelor of Science (B.S.) in Speech, Language and Hearing Sciences; Master of Science (M.S.) in Speech-Language Pathology; Doctor of Audiology (Au.D.); and Doctor of Philosophy (Ph.D.) in Communication Sciences and Disorders. Students may specialize in either speech-language pathology or audiology at the graduate level. The Master of Science and Doctor of Audiology programs are accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association.
The programs are also recognized by the Texas State Board of Examiners for Speech-Language Pathology and Audiology.

Special features of the department include several research laboratories, as follows:

- Adult Neurogenic Language Disorders Laboratory
- Auditory Electrophysiology Laboratory
- Auditory Perception Laboratory
- Auditory Processes Laboratory
- Augmentative and Alternative Communication Laboratory
- Child Phonology Laboratory
- Selective Auditory Attention Laboratory
- Speech Science Laboratory
- Pediatric Audiometric Science Laboratory

For updated lab information please review the following link: http://www.ttuhsc.edu/sah/CSLHR.aspx.

The department sponsors chapters of the National Student Speech-Language-Hearing Association and the Student Academy of Audiology (SAA). Besides numerous community fund-raising events and scholarship drives, the student organizations conduct annual conferences which attract professionals from throughout the Southwest. Nationally and internationally recognized speakers spend time with students and other professionals discussing current topics in communication disorders and sciences.

The Speech-Language and Hearing Clinic serves as the primary clinical practica site for students in the department. Under direct faculty supervision, students provide clinical services to people in the local community, Texas Tech University and TTUHSC, as well as the entire West Texas and Eastern New Mexico areas. Additional practica sites are available through an externship program in hospitals, schools, long-term care facilities, rehabilitation institutes, private practices, and governmental offices.

Financial assistance may be available from the Office of Financial Aid at TTUHSC. The Department of Speech, Language, and Hearing Sciences also offers limited financial assistance to highly qualified students on the basis of scholarship. Students interested in financial assistance through the department will have an opportunity to file their requests after they have been accepted to the program.
Undergraduate Program in Speech, Language, and Hearing Sciences

Admission to the Bachelor of Science Program

The application deadline is March 1 of each year for the following fall class. Admission decisions are made by May 1. Class enrollment is limited. Minimum admission requirements include (1) completion of the online application, (2) a minimum cumulative GPA of 2.75 on a 4.0 scale, (3) a grade of “C” or better in all prerequisite courses, and (4) proof of appropriate immunizations against infectious diseases. Students are required to adhere to all policies as outlined by the Department of Speech, Language, and Hearing Sciences, the School of Allied Health Sciences, and Texas Tech University Health Sciences Center. Students also have specific rights as outlined in the student handbook.

Prerequisites

Prerequisite courses for the undergraduate program include the following, or their approved equivalents. These courses may be completed at any accredited college or university. The department reserves the right to change course requirements without notice.

Required Courses

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication:</td>
<td>9 hours</td>
</tr>
<tr>
<td>Technical Writing is required.</td>
<td></td>
</tr>
<tr>
<td>Math:</td>
<td>6 hours</td>
</tr>
<tr>
<td>Statistics is required.</td>
<td></td>
</tr>
<tr>
<td>Natural Science:</td>
<td>6-8 hours</td>
</tr>
<tr>
<td>At least one course in biological/life science (e.g. biology, genetics, human anatomy and physiology) and one in physical science (physics or chemistry) are required.</td>
<td></td>
</tr>
<tr>
<td>Humanities:</td>
<td>3 hours</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts:</td>
<td>3 hours</td>
</tr>
<tr>
<td>Social and Behavioral Science:</td>
<td>24 hours</td>
</tr>
<tr>
<td>U.S. History - 6 hours</td>
<td></td>
</tr>
<tr>
<td>Political Science - 6 hours</td>
<td></td>
</tr>
<tr>
<td>Individual or Group Behavior - 12 hours (Recommended course: COMS 2350 Introduction to Communication Disorders)</td>
<td></td>
</tr>
<tr>
<td>Multicultural:</td>
<td>3 hours</td>
</tr>
<tr>
<td>General Electives:</td>
<td>variable hours</td>
</tr>
</tbody>
</table>

Minimum Total: 66 hours
Speech, Language, and Hearing Sciences Curriculum

The following are the departmental course requirements. Academic policies regarding minimum grade performance are cited in the Student Handbook.

Sample Undergraduate Program

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 3219 Introduction to Audiology</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 3220 Introduction to Speech-Language Pathology</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 3427 Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 3422 Anatomy &amp; Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total hours = 12**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 3221 Clinical Methods</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 3321 Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 3322 Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 3323 Language Development</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 3442 Clinical Audiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total hours = 15**

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 3324 Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 4280/90 Clinical Observation: SLP/Audiology</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 4426 Neural Bases of Speech &amp; Language Disorders</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 3426 Articulation &amp; Phonological Disorders</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 4310 Special Topics (pre-SLP)</td>
<td>3</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>AHSL 4446 Diagnostic Audiology (pre-AuD)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total hours = 16-17**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 4344 Multicultural Issues</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 4280/90 Clinical Observation: SLP/Audiology</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 4410 Basic Sign Language for the Health Professions</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 4427 Assessment Procedures in Speech-Language Pathology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total hours = 13**
**Course Descriptions**


**AHSL 3321 Speech Science (3:3:3:0:0)** An introduction to the production, perception, and processing of speech, including acoustic phonetics. ISBN: 978-1597561822


**AHSL 3323 Language Development (3:3:3:0:0)** An introduction to current theories of language and language development, including methods of obtaining and analyzing language samples. ISBN: 978-0-2-0552556-0

**AHSL 3324 Language Disorders (3:3:3:0:0)** An emphasis on language disorders across the lifespan. Topics include the nature and etiologies of language disorders, with an overview of the principles of treatment. ISBN: 978-1435498594

**AHSL 3422 Anatomy & Physiology (4:4:3:0:1)** A study of the anatomical and physiological aspects of speech and hearing in both normal and clinical populations. ISBN: 978-159756182-2


**AHSL 3442 Clinical Audiology (4:4:3:0:1)** An introduction to hearing assessment techniques and auditory disorders, with adaptation of testing for special populations such as infants, geriatrics, and different language
backgrounds. The student will gain proficiency with pure-tone, speech, and impedance testing techniques. ISBN: 978-0-2-0553195-0

**AHSL 4280 Clinical Observation: Speech-Language Pathology (2:2:0:0:2)**
A supervised clinical assisting experience. May be repeated for credit.

**AHSL 4290 Clinical Observation: Audiology (2:2:0:0:2)** A supervised clinical assisting experience. May be repeated for credit.

**AHSL 4300 Senior Research Project (3:3:0:0:2)** An individual study of a specific problem in one of the areas of speech, language or hearing disorders. Students are required, in advance of registration, to consult with the instructor and secure approval of the specific project to be pursued. No textbook is required.

**AHSL 4310 Special Topics in Speech-Language Pathology (3:3:3:0:0)** A discussion of current issues affecting the practice of speech-language pathology in varied work settings. ISBN: 978-1-4180-1497-1

**AHSL 4344 Multicultural Issues in Communication Disorders (3:3:3:0:0)** Assessment and management of communication disorders in culturally and linguistically diverse populations. Topics include typical and disordered communication, and perspectives on clinical, theoretical, and research implications. No textbook is required.

**AHSL 4410 Basic Sign Language for the Health Professions (4:4:4:0:0)**

**AHSL 4426 Neural Bases of Speech, Language, and Hearing (4:4:4:0:0)**
An exposure to neuroanatomy and neurophysiology through individualized and interactive learning. This course provides strong foundations for future graduate courses in new aspects of communication including neuroanatomy, neurophysiology, and neuropathologies of speech and language. ISBN: 978-1609138714

**AHSL 4427 Assessment Procedures in Speech-Language Pathology (4:4:3:0:1)**
The development of competencies in the selection, use, and interpretation of a wide range of speech and language assessment procedures for children and adults from diverse etiologic, cultural, and ethnic groups. ISBN: 978-0-2-0552432-7

**AHSL 4446 Diagnostic Audiology (4:4:3:0:1)** This course will present advanced diagnostic techniques for children and adults including those from diverse populations or with special needs. ISBN: 978-1-5-8890542-0
Graduate Program in Speech-Language Pathology

Admission to the Speech-Language Pathology Program

Professional education includes two years of study beyond the baccalaureate level. The application deadline is January 15. Admission decisions are made by April 1. Class enrollment is limited each year. Minimum admission requirements include (1) completion of the online application, (2) a cumulative GPA of 3.0 on a 4.0 scale, (3) a GPA of 3.0 on a 4.0 scale in undergraduate audiology and speech pathology courses, (4) demonstration of superior oral and written communication skills, (5) scores above the 10th percentile on the verbal, quantitative, and analytical subtests of the Graduate Record Examination (GRE), (6) proof of appropriate immunizations against infectious diseases, (7) TOEFL or IELTS scores, if English is the second language, and (8) an earned baccalaureate degree or its equivalent in the area of speech, language, and hearing sciences from an accredited institution. Applicants who have earned undergraduate degrees in fields other than speech, language and hearing sciences must take one year (two semesters) of leveling course work.

Students are required to adhere to all policies as outlined by the Department of Speech, Language and Hearing Sciences, the School of Allied Health Sciences, and Texas Tech University Health Sciences Center. Students also have specific rights as outlined in the student handbook.

Speech-Language Pathology Curriculum

Students must maintain a GPA of 3.0 to maintain good academic standing. By the time of graduation, students are expected to have completed the academic and clinical requirements for professional certification by the American Speech-Language-Hearing Association (ASHA), and licensing by the Texas State Board of Examiners in Speech-Language Pathology and Audiology. Students are required to successfully pass a comprehensive written examination or successfully defend a formal thesis project under the supervision of a graduate faculty member in the Department of Speech, Language and Hearing Sciences.
Example Course Sequence

### FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 5320 Research Design</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5463 Adult Language Assessment &amp; Intervention</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 5424 Pediatric Language Assessment &amp; Intervention</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 5381 Graduate Clinical Practicum I: SLP</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours = 14**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 5325 Childhood Speech Sound Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5430 Dysphagia</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 5382 Graduate Clinical Practicum II: SLP</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5362 Motor Speech Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 6000 Master’s Thesis (optional)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total Hours = 14-16**

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 5370 Professional Issues in Speech-Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5383 Graduate Clinical Practicum III: SLP</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 6001 Master’s Thesis (optional)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total Hours = 7-9**

### SECOND YEAR

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 5201 Speech Science: Clinical Applications</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 5143 Aural Rehabilitation Lab</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 5243 Aural Rehabilitation</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 5328 Voice</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5329 Fluency Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5384 Graduate Clinical Practicum IV: SLP</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 5110 Capstone Course</td>
<td>1</td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>AHSL 6002 Master’s Thesis (optional)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total Hours = 16-19**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 5239 Evidence-Based Practice in Communication Disorders</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 5466 Augmentative &amp; Alternative Communication</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 5385 Graduate Clinical Practicum V: SLP</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 6003 Master’s Thesis (optional)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Total Hours = 10-13**
Course Descriptions

AHSL 5110 Capstone Course (1:1:0:0) A comprehensive review of: the nature of human communication and swallowing processes; prevention, assessment, and intervention for communication and swallowing disorders; and research principles and professional issues. No textbook is required.

AHSL 5143 Aural Rehabilitation Lab (1:1:0:1:0) This laboratory course will allow students the opportunity to obtain hands-on experiences in aural rehabilitation. Course will include hands-on experience related to the use, management, and troubleshooting of hearing aids and FM systems. Cochlear implants, vibrotactile devices, and assistive listening devices will also be introduced. No textbook is required.

AHSL 5201 Speech Science: Clinical Applications (2:2:2:0:0) Review of basic concepts of acoustic and articulatory phonetics, with specific reference to their application to clinical populations in communication disorders. Selective literature review illustrating acoustic and physiologic analysis of speech disorders, and application of laboratory and clinical instrumentation for the analysis of disordered speech and language. ISBN: 978-0631232254

AHSL 5239 Evidence-Based Practice in Communication Disorders (2:2:0:0) This course is designed to prepare students for understanding and conducting research in speech and language science. Emphasis is placed on how to conduct a literature search and write a literature review. Students will learn how to present research findings at professional meetings and how to apply research findings in evidence-based practice. ISBN: 978-0131573109

AHSL 5243 Aural Rehabilitation (2:2:2:0:0) The study of aural habilitation and rehabilitation procedures, intervention techniques, and the use of amplification for hearing-impaired children and adults. Psychosocial issues of hearing loss will be discussed in relation to the hearing impairment as well as the cultural history of the patient. ISBN: 978-142831215-9

AHSL 5310 Special Topics in Speech Pathology (3:3:0:0) Directed study for non-thesis candidates. May be repeated for credit. No textbook is required.

AHSL 5320 Research Design (3:3:0:0) A summary of the basic concepts of science and research. Emphasis is placed on the nature of experimental designs and basic inferential statistical analyses, and the application of relevant research methodologies in clinical settings. ISBN: 978-089079964-2

AHSL 5325 Childhood Speech Sound Disorders (3:3:3:0:0) Overview of normal speech acquisition and current approaches to assessment and management of pediatric speech sound disorders. ISBN: 978-0-1-3256356-7


AHSL 5362 Motor Speech Disorders (3:3:3:0:0) A study of the neurologic foundations of speech, speech disorders that can develop as a result of damage to the nervous system, and the ways in which motor speech disorders can be diagnosed and managed. ISBN: 978-1-5-6593951-6

AHSL 5370 Professional Issues in Speech-Language Pathology (3:3:3:0:0) An overview of contemporary professional issues and considerations related to SLP practice, including topics such as ethical conduct, caseload/workload issues, certification and licensure, health literacy, supervision of support personnel, reimbursement, and legislation related to the field. ISBN: 978-1597562034

AHSL 5381-5385 Graduate Clinical Practicum: SLP (3:3:0:0:3) Supervised clinical practice in speech and/or language pathology. No textbook is required.


AHSL 5463 Adult Language Assessment & Intervention (4:4:4:0:0) Effects of normal aging on communication. Assessment and intervention models for acquired adult language disorders (e.g. aphasia, dementia, traumatic brain injury). Medical terminology and report writing will also be included. ISBN: 978-078176981-5; ISBN: 978-142834057-2

AHSL 5466 Augmentative and Alternative Communication (4:4:4:0:0) A study of the emerging area of augmentative and alternative communication, including a perspective on how these alternative and augmentative systems fit within the broad area of communication development and disorders. ISBN: 978-1598571967

AHSL 6000 Master’s Thesis (v:v:0:v:v) May have 2 enrollments for credit. Consent of instructor is required. No textbook is required.
AHSL 6001 Master’s Thesis (v:v:0:0:v) May have 2 enrollments for credit. Consent of instructor is required. No textbook is required.

AHSL 6002 Master’s Thesis (v:v:0:0:v) May have 2 enrollments for credit. Consent of instructor is required. No textbook is required.

AHSL 6003 Master’s Thesis (v:v:0:0:v) May have 2 enrollments for credit. Consent of instructor is required. No textbook is required.

For additional information concerning a career in speech-language pathology, contact the American Speech-Language-Hearing Association (ASHA) in Rockville, Maryland; or visit the Department of Speech, Language and Hearing Sciences at Texas Tech University Health Sciences Center.
Program in Audiology

Program Description

The program in audiology at the Texas Tech University Health Sciences Center, which is accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA), offers comprehensive academic, research, and clinical experience in a wide variety of settings. A unique feature of the TTUHSC program is the diversity of the clinical and research experiences available. Students obtain clinical and/or research experience at: the TTUHSC Speech and Hearing Clinic, several community-based clinics, public school programs, local private practices, and other medical, rehabilitative, and educational facilities outside the Lubbock community. In these settings, students have the opportunity to explore state-of-the-art technology, instrumentation, and assessment/treatment procedures in audiology and communication sciences.

The department also sponsors a chapter of the Student Academy of Audiology (SAA). This national audiology student group hosts community service events throughout the year to support those individuals with hearing loss and also to educate the local community on hearing and balance concerns. TTUHSC audiology students commonly hold elected positions at the national level of the Student Academy of Audiology. This opportunity allows students to be introduced to activities that will advance the profession of audiology in terms of education and advocacy for the profession and patients.

Admission to the Doctor of Audiology Program

Admission to the Doctor of Audiology (Au.D.) program is competitive and begins in February of each year for enrollment the following fall semester. Prospective students are urged to apply for admission as early as possible and to utilize the on-line application forms. Admission requirements include (1) completion of the online application, (2) a cumulative and major GPA of 3.0 on a 4.0 scale, (3) a grade of “C” or better in all coursework in the undergraduate major, (4) submission of GRE test scores (including verbal, quantitative, and analytic writing sections), (5) proof of appropriate immunizations against infectious diseases, (6) a bachelor’s in Speech, Language, and Hearing Sciences or a related field, and (7) TOEFL or IELTS scores, if English is the second language.

Students are required to adhere to all policies as outlined by the Department of Speech, Language, and Hearing Sciences, the School of Allied Health Sciences and the Texas Tech University Health Sciences Center. Students also have specific rights as outlined in the student handbook. Undergraduate majors in the sciences, particularly the life sciences, are recommended for entrance into the Au.D. program.
# Audiology Curriculum

## FIRST YEAR

### Fall Semester Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7442</td>
<td>Psychoacoustics and Auditory Perception</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 7446</td>
<td>Diagnostic Audiology</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 7440</td>
<td>Fundamentals of Sound and the Auditory System</td>
<td>4</td>
</tr>
<tr>
<td>AHSL 7321</td>
<td>Clinical Observation or Clinical Practicum</td>
<td>3</td>
</tr>
<tr>
<td>or AHSL 7392</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours = 15**

### Spring Semester Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7350</td>
<td>Pediatric Audiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7150</td>
<td>Pediatric Audiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 7344</td>
<td>Amplification I</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7285</td>
<td>Audiology Practice Management</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7255</td>
<td>Advanced Concepts in Audiology</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7393</td>
<td>Clinical Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours = 14**

### Summer Semester Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7251</td>
<td>Counseling</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7330</td>
<td>Speech - Language Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7394</td>
<td>Clinical Practicum</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7001</td>
<td>Introduction to Clinical Research</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours = 9**

## SECOND YEAR

### Fall Semester Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7370</td>
<td>Implantable Devices in Audiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7364</td>
<td>Auditory Electrophysiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7164</td>
<td>Auditory Electrophysiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 5320</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7247</td>
<td>Aural Rehabilitation</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7395</td>
<td>Clinical Externship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours = 15**

### Spring Semester Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7245</td>
<td>Amplification II</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7365</td>
<td>Balance Function</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7165</td>
<td>Balance Function Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
**ACHE 7205** Clinical Applications of Aural Rehabilitation                              2
**ACHE 7002** Clinical Research I                                                  1

Total Hours = 14

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7397</td>
<td>Clinical Externship</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours = 3

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7348 Educational Audiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7352 Clinical Disorders in Audiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7286 Business Management Practices for Audiologists</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7257 Amplification III</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7110 Special Topics in Audiology</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 7003 Clinical Research II</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 7398 Clinical Externship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours = 15

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7322 Auditory Processing Disorders</td>
<td>3</td>
</tr>
<tr>
<td>AHSL 7180 Implications of Pharmacology in Audiology</td>
<td>1</td>
</tr>
<tr>
<td>AHSL 7260 Hearing Conservation and Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>AHSL 7399 Clinical Practicum or AHSL 7199</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours = 7-9

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7019 Advanced Clinical Placement</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Hours = 5

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7020 AuD Independent Study</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Hours = 5

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSL 7021 AuD Independent Study</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Hours = 5
**Course Descriptions**

**AHSL 5320 Research Design (3:3:3:0:0)** The purpose of this course is to summarize the basic concepts of science and research. Emphasis will be placed on the nature of experimental designs and basic inferential statistical analyses. Discussions will also include the application of relevant methodologies in clinical settings. ISBN: 978-089079964-2

**AHSL 7000 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHSL 7001 Introduction to Clinical Research (1:1:0:0:1)** Introduction to clinical research; grand rounds type of course where faculty discuss research interests with students to help students identify research method, committee, and topic. ISBN: 978-1-6-0406359-2

**AHSL 7002 Clinical Research I (1:1:0:0:1)** Clinical research course in which students prepare literature review and research questions in preparation for prospectus. ISBN: 978-1-6-0406359-2

**AHSL 7003 Clinical Research II (1:1:0:0:1)** Clinical research course resulting in culmination and presentation of student clinical research project. ISBN: 978-1-6-0406359-2

**AHSL 7005 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHSL 7006 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHSL 7007 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHSL 7010 Independent Study (v:v:v:0:0)** A variable credit course used for individualized leveling plans created by the program director. No textbook is required.

**AHSL 7011 Independent Study (v:v:v:0:0)** A variable credit course used for individualized leveling plans created by the program director. No textbook is required.

**AHSL 7019 Advanced Clinical Placement (v:v:0:0:v)** Supervised clinical practicum for students in the summer of their third year. No textbook is required.
AHSL 7020 AuD Independent Study (v:v:0:0:v) Independent study for advanced students in the fourth year of the Au.D. program. Two enrollments of Au.D. independent study course(s) are required before graduation (typically fall and spring of fourth year unless prior approval has been obtained from the department). May not be taken before all courses and comprehensive examinations are successfully completed. No textbook is required.

AHSL 7021 AuD Independent Study (v:v:0:0:v) Independent study for advanced students in the fourth year of the Au.D. program. Two enrollments of Au.D. independent study course(s) are required before graduation (typically fall and spring of fourth year unless prior approval has been obtained from the department). May not be taken before all courses and comprehensive examinations are successfully completed. May have 2 enrollments for credit. No textbook is required.

AHSL 7022 AuD Independent Study (v:v:0:0:v) Independent study for advanced students in the fourth year of the Au.D program. Two enrollments of Au.D. independent study course(s) are required before graduation (typically fall and spring of fourth year unless prior approval has been obtained from the department). May not be taken before all courses and comprehensive examinations are successfully completed. No textbook is required.

AHSL 7110 Special Topics in Audiology (1:1:1:0:0) This course is a capstone course taken in the third year of the Au.D. program. This course will allow for integration of knowledge in a case-based format. No textbook is required.

AHSL 7150 Pediatric Audiology Lab (1:1:01:0) This lab course is designed to provide hands-on experiences in audiological testing of pediatric patients, along with expanding knowledge related to audiological issues in the pediatric population. No textbook is required.

AHSL 7164 Auditory Electrophysiology Lab (1:1:0:1:0) This lab course is designed to provide hands-on experiences with equipment utilized during electrophysiological testing. No textbook is required.

AHSL 7165 Balance Function Lab (1:1:0:1:0) This lab course is designed to provide hands-on experiences with equipment utilized in assessment and management of balance function. No textbook is required.

AHSL 7180 Implications of Pharmacology in Audiology (1:1:1:0:0) This course will provide the basic information necessary to understand the effects of prescription and nonprescription medications on the auditory and balance systems. Topics will include mechanisms of drug actions, side effects, how age and disease affect these mechanisms, specific effects of certain drugs on the hearing and balance system, and herbal medications. ISBN: 978-1-4-1801130-7; ISBN: 978-0-1-3715155-4
AHSL 7198-7199 Clinical Practicum (1:1:0:0:1) Supervised clinical practicum in audiology. No textbook is required.

AHSL 7225 Research Colloquium (2:2:2:0:0) Seminar discussion on applied research techniques in the field of audiology. Emphasis is placed on analyzing research applied to patients across the lifespan. ISBN: 978-0-1-3715155-4

AHSL 7243 Clinical Applications of Aural Rehabilitation (2:2:2:0:0) This course is designed to provide clinical training on using additional testing and techniques to expand the diagnostic and rehabilitative focus on audiologists. No textbook is required.

AHSL 7245 Amplification II (2:2:2:0:0) This course is designed to apply research and theory to clinical practice. Knowledge gained in the amplification issues will be utilized throughout the course to determine best clinical practices related to interpretation, prescriptive formulas, fitting, verification of fitting, and management considerations across the lifespan will be included. ISBN: 978-1-56593-997-4; ISBN: 978-1-60406-006-5

AHSL 7247 Aural Rehabilitation (2:2:2:0:0) The study of aural habilitation and rehabilitation procedures, intervention techniques, and the use of amplification for hearing-impaired children and adults. Psychosocial issues of hearing loss will be discussed in relation to the hearing impairment, as well as the cultural history of the patient. ISBN: 978-142831215-9

AHSL 7251 Counseling in Audiology (2:2:2:0:0) An introduction to counseling the communicatively disordered and their families. Emphasis will be placed on special education, vocational, and emotional issues surrounding hearing impairment. Considerations of special populations and lifespan issues will be included. ISBN: 9780205366972

AHSL 7255 Advanced Concepts in Audiology (2:2:2:0:0) This course is to provide clinical training in use of additional testing and techniques to expand the diagnostic and rehabilitative focus of audiologists. It will address audiometric problems from both a clinical and experimental point of view. There will be an emphasis on the theoretical basis behind clinical instrumentation and methodologies in clinical diagnosis. Based on the focus for this course, prerequisite knowledge of basic audiometric testing and interpretation are expected. ISBN: 978-1-5-9756342-0

AHSL 7257 Amplification III (2:2:2:0:0) A seminar-style continuation of amplification topics with emphasis on selection, fitting, and verification of advanced amplification features. Fitting and management of special populations will be included. No textbook required.

AHSL 7260 Hearing Conservation and Instrumentation (2:2:2:0:0) This course will present the physiologic and behavioral effects of noise exposure, hearing conservation programs, and clinical services to children and adults from
diverse populations. Instrumentation associated with the measurement of noise across multiple environments will be a central aspect of the course. ISBN: 978-0-9-72314305; ISBN: 978-1-5-9756381-9

**AHS 7285 Audiology Practice Management (2:2:0:0:0)** This course is designed to provide an overview of audiology practice management. Course topics will include issues related to financial management and accounting, personnel management, insurance, marketing, strategic planning, and audiology service delivery. Considerations associated with audiological service delivery for patients of various socioeconomic statuses will be discussed. ISBN: 978-0-9-72314305; ISBN: 978-1-5-9756381-9


**AHS 7321 Clinical Observation and Methods (3:3:0:0:3)** Supervised observation of clinical assessment and management of individuals with communication disorders. No textbook is required.

**AHS 7322 Auditory Processing Disorders (3:3:2:0:1)** This course is designed to address the functional aspects of the auditory system. It will include an overview of anatomy, testing for auditory processing disorders, differential diagnosis, and management. It will also include information on differentiating functional difficulties as symptomology of other disabilities versus auditory processing disorders as the primary diagnosis. ISBN: 978-1-5-9756057-3

**AHS 7330 Speech and Language Development and Disorders (3:3:3:0:0)** An overview of speech and language development and the basic principles of assessment and treatment for speech sound and language disorders. Includes a review of phonetics and a special focus on speech and language problems in persons with hearing loss. ISBN: 978-0-13-707347-4

**AHS 7344 AmplificationI (3:3:2:0:1)** An introduction to clinical amplification which will include clinical perspectives and application of evaluation, selection, verification, validation and dispensing products. Consideration of special populations and their diverse needs will also be reviewed. ISBN: 978-1-59756-347-5

**AHS 7348 Educational Audiology (3:3:3:0:0)** Audiological considerations in educational settings. The incidence, treatment, and educational sequela of hearing impairment in the auditory-verbal classroom will be covered. ISBN: 978-1-4180-4130-4

**AHS 7350 Pediatric Audiology (3:3:3:0:0)** A study of behavioral and objective audiological evaluation, as well as the habilitation and rehabilitation, of infants and children. ISBN: 978-1-5-9756245-4
AHSL 7352 Clinical Disorders in Audiology (3:3:3:0:0) The purpose of this course is to provide students with information to understand the following areas: 1) the anatomy and physiology of auditory mechanisms 2) etiology and pathology of auditory disorders; and 3) audiological and otologic evaluation/management of auditory disorders. ISBN: 978-076930020-7 rec.; ISBN: 978-1-59756-350-5 req.

AHSL 7364 Auditory Electrophysiology (3:3:3:0:0) Covers clinical and theoretical knowledge and applied skills of normal and pathological auditory systems. This course will provide clinical instruction in the application of electrophysiological testing techniques and interpretation. Emphasis will be placed on evaluation of auditory functional and site of lesion testing, protocols, and interpretation. ISBN: 978-020536104-5


AHSL 7370 Implantable Devices in Audiology (3:3:3:0:0) Electrophysiology of implantable devices. Also includes processor strategies, and speech/language learning in prelingually deafened listeners. ISBN: 978-1597563727

AHSL 7390 Clinical Practicum - Individualized Experience (3:3:0:0:3) The course is intended to allow for individualized student instruction of clinical procedures and protocols. This course may be repeated for credit. No textbook is required.

AHSL 7392-7399 Clinical Practicum (3:3:0:0:3) Supervised clinical practicum in audiology. No textbook is required.

AHSL 7440 Fundamentals of Sound and of the Auditory System (4:4:4:0:0) This course is an in-depth exposure to the structure and function of the auditory system, including principles of the physics of sound as applied to physiology of auditory structures. Emphasis is placed on peripheral structure and function, up to and including important brainstem nuclei. An introduction to cortical structures and processing is presented. ISBN: 978-078178047-6; ISBN: 978-0-2-05335534

AHSL 7442 Psychoacoustics and Auditory Perception (4:4:3:0:1) This course will present the physiological bases of auditory perception and the corresponding behavioral manifestations including higher-level cognitive and developmental aspects of speech perception. Includes laboratory. ISBN: 978-3-540231592

AHSL 7446 Diagnostic Audiology (4:4:3:0:1) This course will present advanced diagnostic techniques for children and adults including those from diverse populations or with special needs. ISBN: 978-1433805615; ISBN: 978-1-5-8890542-0
Program in Communication Sciences and Disorders

Program Description

The Department of Speech, Language and Hearing Sciences offers a Doctor of Philosophy (Ph.D.) degree in Communication Sciences and Disorders. The program is designed to prepare students with the competencies and abilities to perform in academic, research, and industrial positions. In addition, the program prepares students to meet the growing demands at local, state, regional and national levels for doctoral level instructors/mentors.

The Ph.D. program offers an individualized program which allows each doctoral student to have both broad underpinnings of audiology, speech-language pathology, and/or communications sciences, along with a narrow focus in his/her chosen areas of expertise. As such, each student will be able to study and excel in an individually constructed plan of study that is tailored to the student’s area of interest and specialization.

Admission to the Program

Admission to the Ph.D. program in Communication Sciences and Disorders is competitive. Prospective students are urged to apply for admission as early as possible. Admission requirements include (1) completion of online application to the Ph.D. program in communication sciences and disorders, (2) submission of official transcripts, (3) three letters of recommendation, (4) GRE scores, (5) undergraduate or graduate degree in Speech, Language and Hearing Sciences or other related fields such as psychology, linguistics, special education, electrical engineering, biomedical engineering, rehabilitation sciences, and biology, (6) cumulative graduate GPA of 3.0 or better, (7) letter of intent specifying area of interest, (8) interview with at least one faculty member, (9) TOEFL or IELTS scores, if English is the second language, (10) resume, if available.

Program Curriculum

Students in the Ph.D. program in Communication Sciences and Disorders must earn a total of 81 graduate semester credit hours to meet the minimal credit requirements. The total degree requirement hours may consist of a combination of graduate transfer hours and graduate hours completed within the proposed program.

All students must complete a minimum of 57 semester credit hours in the Ph.D. program. Individualized degree programs will be determined by the student’s planning committee. A minimum of nine hours of statistics/research design are required. In addition, a minimum of 12 semester credit hours must be taken within the Department of Speech, Language, and Hearing Sciences,
and a minimum of 9 credit hours must be taken outside the department. The program requires a pre-dissertation project, comprehensive examination, and dissertation. In addition, the program provides students the opportunity to receive experience in teaching.

### Course Descriptions

**AHS 7000 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHS 7005-7007 Doctoral Research (v:v:0:0:v)** Enrollment associated with clinical research project. Instructor permission is required. May have 2 enrollments for credits. No textbook is required.

**AHS 8000 Doctoral Research Seminar (6:6:0:0:6)** Students will enroll in pre-dissertation research projects. This research is expected to make a significant contribution to the student’s chosen area of study. No textbook is required.

**AHS 8001 Doctoral Research Seminar (6:6:0:0:6)** Students will enroll in pre-dissertation research projects. This research is expected to make a significant contribution to the student’s chosen area of study. No textbook is required.

**AHS 8002 Doctoral Research Seminar (6:6:0:0:6)** Students will enroll in pre-dissertation research projects. This research is expected to make a significant contribution to the student’s chosen area of study. No textbook is required.

**AHS 8003 Doctoral Research Seminar (6:6:0:0:6)** Students will enroll in pre-dissertation research projects. This research is expected to make a significant contribution to the student’s chosen area of study. No textbook is required.

**AHS 8320 Cortical Connections (3:3:3:0:0)** This course will study the functional significance of the complex array of connections between cortical regions and subcortical regions that support cortical functions. Topics covered include brain & language, animal communication, motor speech processes, the descending pathways, memory & attention, cortical processing of pitch information, thalamocortical organization, cerebellum & cognition, perception of complex sounds, and sound source localization. No textbook is required.

**AHS 8321 Evidence-Based Practice in Communication Disorders (3:3:3:0:0)** This course is designed to prepare students for understanding and conducting research in speech and language science. Emphasis is placed on how to conduct a literature search and write a literature review. Students will learn how to present research findings at professional meetings and how to apply research findings in evidence-based practice. No textbook is required.

**AHS 8322 Advanced Auditory Research (3:3:3:0:0)** Seminar devoted to the understanding of frontier knowledge in the area of auditory research and to
applying the knowledge in developing and performing research projects. May be repeated as topic varies. No textbook is required.

**AHSL 8323 Seminar in Language and Culture (3:3:0:0)** Selected topics on language and culture will be explored through reading of current research in the field. Topics include psycholinguistics, sociolinguistics, dialects, language variations, bilingualism, multicultural and multilingual communication, speech perception and production, and language development. May be repeated as topic varies. No textbook is required.

**AHSL 8324 Seminar in Augmentative and Alternative Communication (3:3:0:0)** The purpose of this course is to present the theoretical and clinical basis of AAC. Emphasis will be placed on evaluating efficacy of AAC intervention with individuals with developmental and acquired disabilities. Discussions will include application of relevant research methodologies in clinical settings. May be repeated as topic varies. No textbook is required.

**AHSL 8325 Seminar in Speech Perception (3:3:0:0)** Seminar devoted to the area of understanding speech. Topics will include research and clinical application of speech perception studies. May be repeated as topic varies. No textbook is required.

**AHSL 8328 Seminar in Pediatric Audiology (3:3:0:0)** Selected studies in infant, child, and adolescent audiology. Studies can include areas such as diagnostic audiology, aural rehabilitation in children, and educational audiology. May be repeated as topic varies. No textbook is required.


**AHSL 8332 Seminar in Neural Bases of Adult Communication Disorders (3:3:0:0)** Seminar devoted to the study of the impact of neurological impairments on the speech, language, cognition, and swallowing abilities of adults. Topics will include the neural basis of dysarthria, apraxia of speech, aphasia, dementia, and dysphagia in adults. Links will be made between neural basis and clinical behavior, as well as evidence based practice interventions. No textbook is required.

**AHSL 8333 Seminar in Neural Bases of Pediatric Communication Disorders (3:3:0:0)** Seminar devoted to the study of the impact of neurological impairments on the speech, language, cognitive, social, and swallowing abilities of children. Topics will include the neural basis of common pediatric communication disorders, childhood apraxia of speech, and others.
Links will be made between the neural basis and clinical behavior, as well as evidence based practice interventions. No textbook is required.

**AHSL 8334 Seminar in Cross-disciplinary Research in Speech and Hearing (3:3:3:0:0)** Selected studies in communication sciences, offering the opportunity for cross-disciplinary interaction between faculty and students. Studies can include speech-language pathology, audiology, speech science, hearing science, or related fields. No textbook is required.

**AHSL 8335 Seminar in Treatment for Adult Neurogenic Disorders (3:3:3:0:0)** Seminar devoted to discussing and critically evaluating strategies for people with neurogenic communication disorders. Emphasis will be placed on evaluating efficacy of contemporary intervention techniques with individuals who have adult neurogenic communication disorders. No textbook is required.

**AHSL 8336 Seminar in Advanced Vestibular Issues (3:3:3:0:0)** Seminar devoted to the area of understanding vestibular and balance issues. Topics include discussion about the physiological basis of the vestibular/balance system, pathophysiology of disorders, methods and evaluation of vestibular rehabilitation, and research in these areas. No textbook is required.

**AHSL 8337 Seminar in Brain and Language (3:3:3:0:0)** The focus of this seminar is to learn about central issues in brain and language research. Emphasis will be placed on what is known about neurological basis of aphasia. Students will focus on the relationship between brain and language in terms of their scientific and methodological aspects. No textbook is required.

**AHSL 8338 Seminar in Clinical Phonetics: Acoustic and Articulatory Studies of Speech Disorders (3:3:3:0:0)** Seminar devoted to the area of acoustic phonetic and physiological phonetic characteristics of speech disorders, such as: dysarthria, aphasia, apraxia, and developmental articulation disorders. Emphasis will be placed on methods of describing speech disorders from an acoustic perspective through the study of classic and recent research studies; however, physiological mechanisms underlying the disordered acoustic signal will also be selectively addressed. The course will include laboratory exercises in the acoustic analysis of normal and disordered speech. No textbook is required.

**AHSL 8340 Laboratory Rotation I (3:3:0:0:3)** First of three laboratory rotations required in the Ph.D. program. The primary purpose of the Laboratory Rotation is to provide doctoral students with the opportunity to experience different laboratory environments and research areas and in so doing, assist him or her in choosing a research area for dissertation work. No textbook is required.

**AHSL 8341 Laboratory Rotation II (3:3:0:0:3)** Second of three laboratory rotations required in the Ph.D. program. The primary purpose of the Laboratory Rotation is to provide doctoral students with the opportunity to experience different laboratory environments and research areas and in so doing, assist him or her in choosing a research area for dissertation work. No textbook is required.
AHSL 8342 Laboratory Rotation III (3:3:0:0:3) Third of three laboratory rotations required in the Ph.D. program. The primary purpose of the Laboratory Rotation is to provide doctoral students with the opportunity to experience different laboratory environments and research areas and in so doing, assist him or her in choosing a research area for dissertation work. No textbook is required.


AHSL 8360 Advanced Statistical Methods (3:3:3:0:0) Advanced concepts of research and statistics for communication and rehabilitation scientist. No textbook is required.

AHSL 9000 Doctoral Dissertation (v:v:0:0:v) The Doctor of Philosophy degree in Communication Sciences and Disorders is a research degree and is conferred only in recognition of high achievement in independent scientific research and scholarship. No textbook is required.

AHSL 9001 Doctoral Dissertation (v:v:0:0:v) The Doctor of Philosophy degree in Communication Sciences and Disorders is a research degree and is conferred only in recognition of high achievement in independent scientific research and scholarship. No textbook is required.

AHSL 9002 Doctoral Dissertation (v:v:0:0:v) The Doctor of Philosophy degree in Communication Sciences and Disorders is a research degree and is conferred only in recognition of high achievement in independent scientific research and scholarship. No textbook is required.

AHSL 9003 Doctoral Dissertation (v:v:0:0:v) The Doctor of Philosophy degree in Communication Sciences and Disorders is a research degree and is conferred only in recognition of high achievement in independent scientific research and scholarship. No textbook is required.

Courses may also include curriculum from graduate programs in the Department of Speech, Language, and Hearing Sciences. Individualized degree programs also include courses from departments at Texas Tech University and the Texas Tech University Health Sciences Center.
DEPARTMENT OF
LABORATORY SCIENCES
AND PRIMARY CARE
Program in Clinical Laboratory Science

Program Description

The clinical laboratory plays a major role in diagnostic medicine. Graduates of the Program in Clinical Laboratory Science (medical technology) analyze patient specimens for indications of disease. Results of these tests are used by the physician in confirming the patient diagnosis and in prescribing therapy. Academic preparation for a career in clinical laboratory science is a four-year baccalaureate degree, including a clinical preceptorship. Two years of prerequisite courses in chemistry, mathematics, biology, microbiology, and liberal arts precede a two-year professional component dealing specifically with clinical laboratory science. The professional program combines didactic instruction with student laboratory experience, followed by clinical practice in affiliated laboratories.

The TTUHSC Clinical Laboratory Science program culminates in the Bachelor of Science degree in Clinical Laboratory Science. Graduates of the program are eligible to sit for a national certification examination.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS can be contacted at:

5600 N River Rd Suite 720
Rosemont, IL 60018
(773) 714-8880

TTU Honors College students accepted into the CLS program may complete honors college credit in the School of Allied Health Sciences and graduate with the honors designation.

Special Features

Candidates seeking a degree in clinical laboratory science have the option of pursuing the Bachelor of Science in clinical laboratory science tract offered at the Lubbock campus or the second degree online tract for students who already hold a Bachelor of Science degree. A third tract is available for students who wish to earn a certificate in clinical laboratory science. All three tracts are eligible to sit for the national certification in clinical laboratory science through the American Society of Clinical Pathology Board of Certification (BOC).

Essential Functions

A student admitted into the Clinical Laboratory Science program must meet basic and essential requirements that are necessary to be able to obtain employment in the field of clinical laboratory medicine. The essential functions identified are the following:
1. **Mobility:**
   a) The student **must** have adequate gross mobility in order to maneuver in a timely and safe fashion throughout the department.
   
   b) The student **must** be able to lift his or her arms above shoulder height in order to place or remove items of ten pounds or less from shelves.
   
   c) The student **must** be able to bend over at the waist or squat (waist and knees) in order to place and remove items of ten pounds or less from drawers and cabinets.

2. **Manual Dexterity:** The student **must** have adequate fine motor skills to be able to manipulate small objects in a safe and precise manner. Examples would include (but are not limited to) being able to operate a computer keyboard; dial a telephone; handle cuvettes, sample cups, pipette tips, and reagent vials; pick up glass slides from table top, manipulate tools and instruments used in the clinical laboratory (including a microscope and pipettes); collect specimens, and use a pen or pencil to write the English language legibly.

3. **Auditory Acuity:** The student **must** be able to hear well enough to respond to significant sounds in a clinical lab. Examples would include (but are not limited to) being able to hear the telephone ring; hearing a fire alarm or other warning system; being able to hear signals generated from instrumentation that may indicate normal operating status, critical sample value, or equipment malfunction, and being able to hear and follow verbal instruction from a coworker or supervisor.

4. **Verbal Communication Skills:** The student **must** be able to speak the English language in a manner that is understandable (this being both clear distinct words and adequate volume) to persons on the telephone or other health care workers listening specifically to the student in person.

5. **Visual Acuity to read, write, discern colors, and use a microscope:** The student **must** have adequate eyesight such that he/she can recognize and distinguish gradients of color (such as on a urine reagent strip and special stains), read numbers and English words either on a video display screen, computer printout, or legible handwriting, and interpret lines and points on graphs and charts.

6. **Intellectual, Conceptual, Integrative, and Quality Skills:** The student **must** possess the ability to develop and exhibit organizational problem solving skills. Specifically, the student must have the ability to measure, calculate, analyze, interpret, synthesize and evaluate data; have the ability to learn to perform duties and assignments in a timely manner while under stress and in a variety of settings; exhibit the maturity to accept feedback and demonstrate professional conduct in the classroom, laboratory, and at the preceptorship site.
Laptop Computer Requirement

Students are required to own or have access to a laptop computer for use in the classroom. Laptops are suggested to have a minimum of 1 GB Shared DDR2 SDRAM, 60 GB hard drive and have wireless capabilities.

Admission to the BSCLS Lubbock Campus Program

Third year students (juniors) seeking admission must have the required number of semester hours of credit for admission. All courses must be completed prior to beginning the professional program. A personal interview is the final part of the admissions review.

Pre-Professional Curriculum for BSCLS Lubbock Campus

Specific prerequisite courses must be completed before application to the professional phase of the Clinical Laboratory Science program.

A minimum overall GPA of 2.5 on a 4.0 scale and a grade of C or better in each prerequisite course is required. GPA calculations are based on required courses. Provisional admission may be offered to applicants with a GPA of less than 2.5. Such applications will be reviewed on an individual basis.

On the following page are example course plans using the Texas Tech equivalents of the prerequisite courses. Students wishing to enter the Clinical Laboratory Science program should choose either the standard, pre-med or pre-PA options. Substitution of courses may be authorized by the Program Director.

Standard Option Prerequisites

<table>
<thead>
<tr>
<th>FALL SEMESTER COURSE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1307 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1107 Principles of Chemistry Lab I</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1403 A&amp;P or Biology I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1320 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Essentials of College Rhetoric</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours = 14

<table>
<thead>
<tr>
<th>SPRING SEMESTER COURSE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1308 Principles of Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1108 Principles of Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1302 Advanced College Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1404 Biology II or A&amp;P</td>
<td>4</td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours = 14
SECOND YEAR

Fall Semester Course | Credit Hours
---|---
CHEM 2303 **Introduction to Organic Chemistry | 3
CHEM 2103 **Introduction to Organic Chemistry Lab | 1
HIST 2300 U.S. History to 1877 | 3
POLS 1301 American Government Organization | 3
*Elective | 3
*Elective | 3

**Total hours = 16**

Spring Semester Course | Credit Hours
---|---
MBIO 3401 Principles of Microbiology | 4
HIST 2301 U.S. History after 1877 | 3
POLS 2302 American Public Policy | 3
Science Elective | 3-4

**Total hours = 13 - 14**

* Electives must be one behavioral science, one humanities and one visual performing arts. Please see advisor.

** Organic 3305/3105 can be substituted.

Pre-Med Option Prerequisites

The pre-med mentor program is designed to provide direction to students interested in attending medical school following the completion of a degree in clinical laboratory science. The primary purpose of this program is to help the student, by means of meetings and counseling, to prepare for and apply to medical school. Preparation for the Medical College Admission Test (MCAT), the admission interview, and other aspects of personal preparation are considered. The goal of this program is to provide to those students with both academic and professional potential the best opportunity to successfully gain admission to medical school.

FIRST YEAR

Fall Semester Course | Credit Hours
---|---
CHEM 1307 Principles of Chemistry I | 3
CHEM 1107 Principles of Chemistry I Lab | 1
BIOL 1403 Biology I | 4
ENGL 1301 Essentials of College Rhetoric | 3
MATH 1351 Calculus I | 3
or
MATH 2300 Statistics | 3

**Total hours = 14**

Spring Semester Course | Credit Hours
---|---
CHEM 1308 Principles of Chemistry II | 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1108</td>
<td>Principles of Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1404</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1302</td>
<td>Advanced College Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>*Elective</td>
<td></td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1306</td>
<td>General Physics</td>
</tr>
<tr>
<td>PHYS 1103</td>
<td>General Physics Lab</td>
</tr>
<tr>
<td>CHEM 3305</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 3105</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>HIST 2300</td>
<td>U.S. History to 1877</td>
</tr>
<tr>
<td>POLS 1301</td>
<td>American Government Organization</td>
</tr>
<tr>
<td></td>
<td>*Elective</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1307</td>
<td>General Physics</td>
</tr>
<tr>
<td>PHYS 1104</td>
<td>General Physics Lab</td>
</tr>
<tr>
<td>CHEM 3306</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 3106</td>
<td>Organic Chemistry Lab</td>
</tr>
<tr>
<td>MBIOS 3401</td>
<td>Principles of Microbiology</td>
</tr>
<tr>
<td>POLS 2302</td>
<td>American Public Policy</td>
</tr>
<tr>
<td>HIST 2301</td>
<td>U.S. History after 1877</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3416</td>
<td>Genetics</td>
</tr>
<tr>
<td></td>
<td>*Elective</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Electives must be one behavioral science, one humanity and one visual performing art. Please see advisor.

**Pre-Physician Assistant Option Prerequisites**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1307</td>
<td>Principles of Chemistry I</td>
</tr>
<tr>
<td>CHEM 1107</td>
<td>Principles of Chemistry I Lab</td>
</tr>
<tr>
<td>BIOL 1403</td>
<td>Biology I</td>
</tr>
<tr>
<td>MATH 1320</td>
<td>College Algebra</td>
</tr>
</tbody>
</table>
ENGL 1301  Essentials of College Rhetoric  3
*Elective  3

**Total hours = 17**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1308  Principles of Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1108  Principles of Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1302  Advanced College Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1404  Biology II</td>
<td>4</td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours = 17**

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2303  Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 2103  Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>HIST 2300  U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1301  American Government Organization</td>
<td>3</td>
</tr>
<tr>
<td>ZOOL 2403  Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours = 17**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 2404  Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2302  American Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2301  U.S. History after 1877</td>
<td>3</td>
</tr>
<tr>
<td>MBIO 3401  Principles of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NS 1325  Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours = 17**

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours = 3**

*Electives must be one behavioral science, one humanity and one visual performing art. The other two electives should be behavioral sciences to fulfill the TTUHSC PA prerequisites. Please see advisor.
BSCLS Lubbock Campus Curriculum

The following courses are offered once each year in the semester listed and must be taken in sequence unless granted permission by the course director and Program Director. The course plan is the same for the standard, pre-med and pre-PA options.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMT 3400 Clinical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 3405 Clinical Bacteriology I</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 3455 Principles of Immunology</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 3110 Professional Issues in CLS</td>
<td>1</td>
</tr>
<tr>
<td>AHMT 4300 Applied Statistics and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours = 16

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMT 3310 Urinalysis and Body Fluids</td>
<td>3</td>
</tr>
<tr>
<td>AHMT 3450 Clinical Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 3460 Clinical Bacteriology II</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 3470 Hematology I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total hours = 15

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMT 4405 Molecular Diagnostics</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 4420 Laboratory Management</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 4455 Parasitology/Mycology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total hours = 12

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMT 4185 Clinical Correlations</td>
<td>1</td>
</tr>
<tr>
<td>AHMT 3465 Immunohematology</td>
<td>4</td>
</tr>
<tr>
<td>AHMT 4640 Clinical Preceptorship I</td>
<td>6</td>
</tr>
<tr>
<td>AHMT 4480 Hematology II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total hours = 15

<table>
<thead>
<tr>
<th>Spring Semester Course Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMT 4741 Clinical Preceptorship II</td>
</tr>
<tr>
<td>AHMT 4842 Clinical Preceptorship III</td>
</tr>
<tr>
<td>AHMT 4105 Senior Seminar</td>
</tr>
</tbody>
</table>

Total hours = 16
Total Hours Required (Standard Option)
Prerequisites 57-58
Professional Curriculum 72
129-130

Total Hours Required (Pre-Med Option)
Prerequisites 70
Professional Curriculum 72
142

Total Hours Required (Pre-PA Option)
Prerequisites 71
Professional Curriculum 72
143

During professional studies, students are required to adhere to all program policies and academic and behavioral guidelines as outlined in the Student Handbook and Clinical Preceptorship Manual.

Course Descriptions for BSCLS Lubbock Campus

AHMT 3110 Introduction to Clinical Laboratory Science (1:1:1:0:0) An overview and introduction to the profession. No textbook is required.

AHMT 3310 Urinalysis and Body Fluids I (3:3:2:0:4) Analysis of the physical, chemical, and microscopic parameters of urine and body fluids. Special emphasis is placed on understanding kidney function and pathology. ISBN: 978-0803616974

AHMT 3400 Clinical Chemistry I (4:4:3:0:3) An introduction to the basic principles, methodologies, and physiology of clinical chemistry. ISBN: 978-0721638652

AHMT 3405 Clinical Bacteriology I (4:4:3:0:3) Study of the isolation, cultivation, identification, and susceptibility testing of pathogenic bacteria. The taxonomy, physiology, and pathogenesis of medically important bacteria are covered. ISBN: 978-1416061656

AHMT 3450 Clinical Chemistry II (4:4:3:0:3) Prerequisite: AHMT 3400. The qualitative and quantitative chemical analysis of blood and other body fluids. Correlation of test results to health and disease states. ISBN: 978-0721638652


AHMT 3460 Clinical Bacteriology II (4:4:3:0:3) Prerequisite: AHMT 3405. A continuation of AHMT 3405 with an emphasis in clinical virology, clinical correlations, and case studies and bioterrorism. ISBN: 978-1416061656

AHMT 3465 Immunohematology (4:4:3:0:3) Prerequisite: AHMT 3455. The theory, practical application, and technical performance of blood bank procedures required for transfusion of blood, blood components, and the handling and storage of blood components. Correlation of test results to normal and abnormal physiology. ISBN: 978-0803612488


AHMT 4185 Clinical Correlations (1:1:1:0:0) Prerequisites: AHMT 3400, 3405, 3450, 3455, 3460, 3465, 3470, 4480. Review of current topics and case studies in clinical laboratory science. No textbook is required.

AHMT 4300 Applied Statistics and Research (3:3:3:0:0) Introduction to descriptive, inferential, and non-parametric statistics related to basic and clinical science. Introduction to the process of basic and clinical research and research design. Application of statistical analysis to assigned research projects. ISBN: 978-0781754590

AHMT 4405 Molecular Diagnostics (4:4:0:3) Introduction to basic genetics and genetic testing techniques used in molecular and forensic pathology. ISBN: 978-0803626775

AHMT 4420 Laboratory Management (4:4:0:0) An introduction to management with emphasis upon management issues and concerns specific to the clinical laboratory. ISBN: 978-0130495389


Admission to the Second Degree BSCLS Program
This is a 12 month online, second degree tract in clinical laboratory science for students who have completed a four-year science degree from an accredited university. Didactic material is delivered online and laboratory sessions are conducted via one, six-day session in the Fall and Spring semesters. Additionally, a clinical laboratory preceptorship is required during the final semester. Candidates must have an overall 2.5 GPA based on a 4.0 scale and a 2.5 science GPA on a 4.0 scale. Students who complete requirements for the degree are eligible to sit for the national certification examination through the American Society of Clinical Pathology Board of Certification (BOC).

Prerequisite Course Requirements for Second Degree BSCLS
Courses must be completed with a “C” or above to be considered for prerequisite credit.

- 12 credit hours of Biological Sciences with laboratory
- 8 credit hours of Basic Chemistry with laboratory
- 4 credit hours of Organic Chemistry with laboratory
- 4 credit hours of Microbiology with laboratory
- 3 credit hours of Statistics

*recommended courses: Immunology, Anatomy, Physiology, Genetics, Cell Biology, and upper division Microbiology

Graduates Not from Texas Public Universities
A second bachelor’s degree sought by a student who did not graduate from a public Texas university must include the required Core Curriculum:

Communication
* English 1301 Composition I 3 hours
* English 1302 Composition II 3 hours

Mathematics
Courses with prefix MATH  

Natural Sciences  
Courses with prefixes BIOL, CHEM, GEOL, PHYS, or other natural sciences  

Visual and Performing Arts  
Any art, music, drama, or theatre arts course  

Humanities  
Any literature, philosophy, modern or classical language/literature, or cultural studies course  

Social and Behavioral Sciences  
*HIST 1301 United States History I  
*HIST 1302 United States History II  
(Students may substitute 3 credit hours of Texas History for 3 credits of United States History)  
*GOVT 2301 American Government I  
*GOVT 2302 American Government II  
Any psychology, sociology, or anthropology course  

Core Curriculum Electives  
Chosen from the fields of study listed above  

*Course numbers listed are based on the Texas Common Course Numbering System (TCCNS). Check with your academic institution to verify the course number that corresponds with the TCCNS number.

Admission to the CLS Certificate Program

This is a 12 month online, certificate tract in clinical laboratory science for students who have completed a four-year science degree from an accredited university. Didactic material is delivered online and laboratory sessions are conducted via one, six-day session the Fall and Spring semesters. Additionally, a clinical laboratory preceptorship is required during the final semester. Candidates must have an overall 2.5 GPA based on a 4.0 scale and a 2.5 science GPA on a 4.0 scale. Students who complete requirements for the certificate are eligible to sit for the national certification examination through the American Society of Clinical Pathology Board of Certification (BOC).

Prerequisite Course Requirements for CLS Certificate Program

Courses must be completed with a “C” or above to be considered for prerequisite credit.

- 12 credit hours of Biological Sciences with laboratory
- 8 credit hours of Basic Chemistry with laboratory
- 4 credit hours of Organic Chemistry with laboratory
- 4 credit hours of Microbiology with laboratory
- 3 credit hours of Statistics
Second Degree & Certificate CLS Curriculum

Fall Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSD/AHLC 4341</td>
<td>Foundations of Hemastasis</td>
<td>3</td>
</tr>
<tr>
<td>AHSD/AHLC 4343</td>
<td>Foundations of Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>AHSD/AHLC 4345</td>
<td>Foundations of Clinical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>AHSD/AHLC 4450</td>
<td>Clinical Laboratory Practice I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total hours = 13</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spring Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSD/AHLC 4242</td>
<td>Advanced Hematology</td>
<td>2</td>
</tr>
<tr>
<td>AHSD/AHLC 4144</td>
<td>Analysis of Body Fluids</td>
<td>1</td>
</tr>
<tr>
<td>AHSD/AHLC 4145</td>
<td>Principles of Molecular Diagnostics</td>
<td>1</td>
</tr>
<tr>
<td>AHSD/AHLC 4146</td>
<td>Advanced Microbiology</td>
<td>1</td>
</tr>
<tr>
<td>AHSD/AHLC 4147</td>
<td>Clinical Immunology</td>
<td>1</td>
</tr>
<tr>
<td>AHSD/AHLC 4348</td>
<td>Foundations of Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>AHSD/AHLC 4451</td>
<td>Clinical Laboratory Practice II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total hours = 13</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSD/AHLC 4752</td>
<td>Preceptorship</td>
<td>7</td>
</tr>
<tr>
<td>AHSD/AHLC 4149</td>
<td>Principles of Laboratory Management</td>
<td>1</td>
</tr>
<tr>
<td>AHSD/AHLC 4153</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total hours = 9</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total hours = 35</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*recommended courses: Immunology, Anatomy, Physiology, Genetics, Cell Biology, and upper division Microbiology

Second Degree & Certificate CLS Course Descriptions

AHSD/AHLC 4144 Analysis of Body Fluids (1:1:16:0:0) A concise review of analysis of the physical, chemical, and microscopic parameters of urine and other body fluids. Some emphasis is placed on understanding kidney function and pathology. ISBN: 978-0781782029

AHSD/AHLC 4145 Principles of Molecular Diagnostics (1:1:16:0:0) An introduction to the basic principles of genetics and the practice of genetic testing techniques with an emphasis on human genetic disease. ISBN: 978-0781782029

AHSD/AHLC 4146 Advanced Microbiology (1:1:16:0:0) Prerequisite: AHSD 4345. A study of pathogenic mycobacteria, viral agents, fungi, and medically significant protozoan and helminthic parasites. Study includes overview of transmission and associated diseases and emphasis on laboratory isolation

**AHSD/AHLC 4147 Clinical Immunology (1:1:16:0:0)** Fundamentals of immunology and the human immune system. An introduction to the theory, practical application, and technical performance of immunologic and serologic procedures used in diagnostic laboratory medicine. ISBN: 978-0781782029

**AHSD/AHLC 4149 Principles of Laboratory Management (1:1:16:0:0)** An introduction to management with emphasis upon management issues and concerns specific to the clinical laboratory. ISBN: 978-0130495389


**AHSD/AHLC 4343 Foundations of Clinical Chemistry (3:3:32:0:0)** An introduction to the principles and practice of clinical chemistry. Correlation of chemistry test results to health and disease states is included. ISBN: 978-0781782029


**AHSD/AHLC 4450 Clinical Lab Practice I (4:4:0:0:48)** A laboratory experience that exposes students to basic procedures and skills needed to satisfactorily perform testing in a clinical lab setting. Topics include pre-analytical, analytical,
and post-analytical components of Hemostasis, Clinical Chemistry, and Clinical Microbiology testing. ISBN: 978-0803608481

**AHSD/AHLC 4451 Clinical Lab Practice II (4:4:0:0:40)** Prerequisite: AHSD 4450. A laboratory experience that exposes students to procedures and skills needed to satisfactorily perform testing in a clinical lab setting. Topics include pre-analytical, analytical, and post-analytical components of: Advanced Hematology, Analysis of Body Fluids, Molecular Diagnostics, Advanced Microbiology, Clinical Immunology, and Immunohematology testing. No textbook is required.

Program in Molecular Pathology

Program Description

Developments in biotechnology in the past two decades have led to the clinical diagnostic laboratory entering a new phase of development and expansion. For the first time in the history of the diagnostic laboratory, molecular pathology is extending the range of information available to physicians, research scientists, and other health professions. Biotechnology, in all its forms, is the fastest-growing discipline in the modern clinical laboratory. The rapid growth of genomics and molecular techniques available to the healthcare professional is dramatically changing the detection, treatment, and assessment of disease. The diagnostic molecular scientist is a professional who is qualified by academic and applied education to provide service in the molecular diagnosis of acquired, inherited and infectious diseases. The goal of molecular diagnostics is to enhance the value of clinical laboratory services by providing an environment in which new tests based on the application of knowledge and new techniques at the most basic cellular level (i.e. molecular techniques) can be established, validated and applied to the testing of patient specimens.

Essential Functions

A student admitted into the Molecular Pathology program must meet basic and essential requirements that are necessary to be able to obtain employment. The essential functions identified are the following:

1. **Mobility:** a) The student must have adequate gross mobility in order to maneuver in a timely and safe fashion throughout the department.
   
   b) The student must be able to lift his or her arms above shoulder height in order to place or remove items of ten pounds or less from shelves.
   
   c) The student must be able to bend over at the waist or squat (waist and knees) in order to place and remove items of ten pounds or less from drawers and cabinets.

2. **Manual Dexterity:** The student must have adequate fine motor skills to be able to manipulate small objects in a safe and precise manner. Examples would include (but are not limited to) being able to operate a computer keyboard; dial a telephone; handle cuvettes, sample cups, pipette tips, and reagent vials; pick up glass slides from table top, manipulate tools and instruments used in the clinical laboratory (including a microscope and pipettes); collect specimens, and use a pen or pencil to write the English language legibly.

3. **Auditory Acuity:** The student must be able to hear well enough to respond to significant sounds in a clinical lab. Examples would include (but are
not limited to) being able to hear the telephone ring; hearing a fire alarm or other warning system; being able to hear signals generated from instrumentation that may indicate normal operating status, critical sample value, or equipment malfunction, and being able to hear and follow verbal instruction from a coworker or supervisor.

4. **Verbal Communication Skills:** The student must be able to speak the English language in a manner that is understandable (this being both clear distinct words and adequate volume) to persons on the telephone or other health care workers listening specifically to the student in person.

5. **Visual Acuity to read, write, discern colors, and use a microscope:** The student must have adequate eyesight such that he/she can recognize and distinguish gradients of color (such as on a urine reagent strip and special stains), read numbers and English words either on a video display screen, computer printout, or legible handwriting, and interpret lines and points on graphs and charts.

6. **Intellectual, Conceptual, Integrative, and Quality Skills:** The student must possess the ability to develop and exhibit organizational problem solving skills. Specifically, the student must have the ability to measure, calculate, analyze, interpret, synthesize and evaluate data; have the ability to learn to perform duties and assignments in a timely manner while under stress and in a variety of settings; exhibit the maturity to accept feedback and demonstrate professional conduct in the classroom, laboratory, and at the preceptorship site.

The TTUHSC Molecular Pathology program culminates in the Master of Science degree in Molecular Pathology. To further molecular pathology among allied health professions, the American Society of Clinical Pathology Board of Certification (BOC) has developed a national certification examination for the Certified Laboratory Specialist in Molecular Biology.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS can be contacted at:

5600 N River Rd. Suite 720
Rosemont, IL 60018
(773) 714-8880

**Laptop Computer Requirement**

Students are required to own or have access to a laptop computer for use in the classroom. Laptops are suggested to have a minimum of 1 GB Shared DDR2 SDRAM, 60 GB hard drive and have wireless capabilities.

**Special Features**

The twelve-month program includes 35 credit hours of didactic (classroom and laboratory) experience and seven credit hours of mentored, clinical molecular diagnostic experience including biomedical research (clinical preceptorship).
The clinical experiences are structured to provide skill and practice in diagnostic techniques, quality assurance, and interpreting and reporting patient results. The clinical experience is an integral part of the curriculum and students pay regular tuition and fees for enrollment.

**Admission to the Program**

To qualify for admission to the program, applicants must have completed or plan to complete a Bachelor’s degree in a science discipline with all prerequisite courses from an accredited U.S. college or university prior to enrollment. A cumulative grade point average of 3.0 or above (on a 4.0 scale) is necessary to qualify for admission. Provisional admission may be offered to applicants with a GPA of less than 3.0. Such applications will be reviewed on an individual basis. Applications must be received by February 1st to be considered for summer 2014 enrollment of that year. Coursework begins in the summer 2014 semester. All qualified candidates selected by the MSMP admissions committee will be invited for an on-campus interview. The GRE is not required.

**Admission Requirements**

- Graduate of a NAACLS accredited Clinical Laboratory Science Program (cumulative 3.0 GPA) with a national certification in clinical laboratory science
  or
- Graduate of a NAACLS accredited Clinical Laboratory Technician Program with a Bachelor’s degree (cumulative 3.0 GPA) and a national certification in Clinical Laboratory Science
  or
- Graduate of an accredited university with a Bachelor’s degree in a science discipline which includes the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry with lab</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>3-4</td>
</tr>
<tr>
<td>Cell Biology (recommended)</td>
<td>4</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology (recommended)</td>
<td>4</td>
</tr>
<tr>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>General Biology</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Genetics</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Molecular Pathology Curriculum**

The following courses are offered once each year in the semester listed and must be taken in sequence unless granted permission by the course director or Program Director.
2013-2014 Academic Year

### Summer 2013 Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMP 5406</td>
<td>Molecular Biology of the Cell</td>
<td>4</td>
</tr>
<tr>
<td>AHMP 5400</td>
<td>Research Design and Statistical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>AHMP 5100</td>
<td>Issues In Molecular Pathology</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours = 9**

### Fall 2013 Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMP 5405</td>
<td>Applied Molecular Techniques I</td>
<td>4</td>
</tr>
<tr>
<td>AHMP 5407</td>
<td>Pathophysiology/Clinical Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AHMP 5309</td>
<td>Human Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>AHMP 5741</td>
<td>Graduate Research</td>
<td>7</td>
</tr>
</tbody>
</table>

**Total Hours = 18**

### Spring 2014 Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHMP 5408</td>
<td>Applied Molecular Techniques II</td>
<td>4</td>
</tr>
<tr>
<td>AHMP 5301</td>
<td>Management of the Molecular Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>AHMP 5102</td>
<td>Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AHMP 5742</td>
<td>Clinical Preceptorship</td>
<td>7</td>
</tr>
</tbody>
</table>

**Total Hours = 15**

### Course Descriptions

**AHMP 5100 Issues in Molecular Pathology (1:1:1:0:0)** Presentation of current topics regarding the biomedical application of genetic information. Ethical issues and professionalism will also be discussed. No textbook is required.

**AHMP 5102 Graduate Seminar (1:1:1:0:0)** Career preparation and independent study and prep for external certification in Molecular Pathology. ISBN: 978-0803626775

**AHMP 5301 Management of the Molecular Laboratory (3:3:24:0:0)** Business and management principles relative to laboratory management and administration will be presented. The purpose, function, and utilization of laboratory services. Specimen procurement, patient education and consent, regulatory issues, and quality assurance are discussed. Specific requirements regarding certification of molecular pathology clinical laboratories will be reviewed and discussed. ISBN: 978-0130495389; ISBN: 978-0803626775

**AHMP 5309 Human Molecular Genetics (3:3:32:0:0)** Advanced human molecular genetics with an emphasis on the causative factors and diagnosis of human disease. The fundamental principles of medical genetics, including basic Mendelian genetics, the molecular and biochemical basis of genetics, developmental genetics, genetics of complex diseases, cancer, and epigenetics
will be studied. Genetic counseling, carrier screening and prenatal diagnosis will be discussed. ISBN: 978-1588903365; ISBN: 978-0323053730

**AHMP 5400 Research Design and Statistical Analysis (4:4:3:0:0)**


**AHMP 5406 Molecular Biology of the Cell (4:4:3:0:0)** Comprehensive survey course in eukaryotic molecular cell biology. Course covers the fundamental concepts of DNA and RNA structure and function, gene replication, transcription and expression, cell-cell communication and cell death in the eukaryotic system. A strong background in biology is assumed. ISBN: 978-0815341055

**AHMP 5407 Pathophysiology/Clinical Laboratory (4:4:3:0:0)** Presentation of the basis of human disease with regard to the major determinants of disease in human organ systems with discussion of normal anatomy and physiology. Survey of the clinical laboratory that includes common laboratory assays (Hematology, Clinical Chemistry, and Microbiology) addresses the purpose, function, and utilization of laboratory services. Specimen procurement, patient education and consent, and quality assurance are discussed. ISBN: 978-0-7817-5317-3; ISBN: 978-0781782029


**AHMP 5741 Graduate Research (7:7:17:20)** Advanced independent molecular research projects with mentor. Topics include analysis of scientific literature, scientific writing, and application of molecular techniques in biomedical research. Writing intensive. No textbook is required.

**AHMP 5742 Clinical Preceptorship** Supervised advanced molecular clinical practicum in an affiliated laboratory with emphasis on patient testing, quality assurance, and case studies assessment. No textbook is required.
Program in Physician Assistant Studies

The PA Profession

Physician Assistants are skilled healthcare professionals who are academically and clinically prepared to practice medical skills with the supervision of a licensed physician. With physician supervision, the PA can exercise autonomy in making medical decisions and provide a broad range of diagnostic and therapeutic services.

The PA is trained to take medical histories, perform physical examinations, order and interpret diagnostic tests, formulate a working diagnosis and implement a treatment/management plan. The clinical role of the PA includes primary and specialty care in medical and surgical practice settings in both urban and rural areas. PA practice is centered on patient care and patient advocacy. Patient education and counseling are important aspects of daily PA activity but the PA may also be involved in research or administrative duties.

PA’s are physician-dependent healthcare providers, and that is a distinctive characteristic of the profession. The Physician – PA team is a close professional relationship built on trust and collegiality. The PA is trained to provide quality healthcare as an agent or extension of the physician. The PA is accountable to a supervising physician, and the physician is ultimately responsible for care rendered by the PA.

Accreditation

At its March 2013 meeting, the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) placed the Texas Tech University Health Sciences Center Physician Assistant program on Accreditation - Probation until its next validation review in March 2015. Probation is a temporary status, limited to two years, of accreditation conferred when a program does not meet the Standards and when the capability of the program to provide an acceptable educational experience for its students is threatened. Once placed on probation, programs that still fail to comply with accreditation requirements in a timely manner, as specified by the ARC - PA, may be scheduled for a focused site visit and/or risk having their accreditation withdrawn. Specific questions regarding the program and its plans should be directed to the program director and/or the appropriate institutional official(s). The Physician Assistant program is accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA) located at 12000 Findley Road, Suite 150 Johns Creek, GA 30097 770-476-1224. Additional information is located on the website at arc-pa@arc-pa.org
Program Description

Based in Midland, Texas, and located on the campus of Midland College, the Texas Tech University Health Sciences Center PA Program is one of the programs in the Department of Laboratory Sciences and Primary Care in the School of Allied Health Sciences and offers a Master of Physician Assistant Studies (MPAS) degree. The curriculum is an intensive 27 month medical education program with a focus on primary care and family medicine and consists of academic and clinical components.

Admission Requirements

A minimum 3.2 grade point average (GPA) on a 4.0 scale is required on the overall GPA and the science GPA. Completion of all science prerequisites within seven years of admission is highly recommended for competitive admission. Competitive applicants will have a strong academic record, excellent recommendations, a positive demonstration of community service, and heath care shadowing experiences preferably with one or more physician assistants. A finished degree, professional studies, healthcare certification, licensure or work experience are not required, but strongly encouraged for competitive admission. AP and CLEP credit will not be accepted for any science prerequisite courses. There is no advanced placement, transfer credit or experiential learning credit within the TTUHSC PA Program. The GRE is not required.

Applicants must have 66 semester hours of undergraduate, pre-professional, required course work to be considered for admission into the TTUHSC PA Program. Applicants may have up to 9 hours of course work in progress during the spring semester prior to entering the program. Course load for each applicant will be reviewed on an individual basis.

Applicants are required to own or have access to a laptop computer with a privacy screen. Laptops are suggested to have a minimum of 1 GB Shared DDR2 SDRAM, 60 GB hard drive and have wireless capabilities.

Preprofessional Prerequisites

The TTUHSC PA program requires at least 66 hours of preprofessional course work, including the following required undergraduate course studies:

<table>
<thead>
<tr>
<th>Prerequisite Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>
**Physician Assistant Curriculum**

### FIRST YEAR

<table>
<thead>
<tr>
<th>First Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 5101 Introduction to PA Profession</td>
<td>1</td>
</tr>
<tr>
<td>AHPA 5306 Pharmacology I</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5301 Clinical Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5406 Physiology</td>
<td>4</td>
</tr>
<tr>
<td>AHPA 5501 Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>AHPA 5201 Medical Ethics</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours = 18

<table>
<thead>
<tr>
<th>First Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 5502 Physical Examination</td>
<td>5</td>
</tr>
<tr>
<td>AHPA 5308 Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5310 Medical Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5307 Pharmacology II</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5407 Pathology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours = 18

<table>
<thead>
<tr>
<th>First Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 5309 Pediatrics</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5311 Cardiology</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5403 Clinical Medicine I</td>
<td>4</td>
</tr>
<tr>
<td>AHPA 5404 Clinical Medicine II</td>
<td>4</td>
</tr>
<tr>
<td>AHPA 5312 Clinical Medicine III</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 5313 Clinical Medicine IV</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours = 20

### SECOND YEAR

<table>
<thead>
<tr>
<th>Second Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 6302 Medical Spanish</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 6301 Clinical Medicine VI</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 6501 Clinical Medicine V</td>
<td>5</td>
</tr>
<tr>
<td>AHPA 6306 Medical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AHPA 6304 Healthcare Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours = 17

Second Fall, Second Spring, and
### Third Summer Semesters Course*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 6601</td>
<td>Family Medicine Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6602</td>
<td>Internal Medicine Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6603</td>
<td>Prenatal Care &amp; Gynecology Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6604</td>
<td>Pediatric Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6605</td>
<td>Emergency Medicine Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6606</td>
<td>Geriatric Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6607</td>
<td>Psychiatry Clerkship</td>
<td>6</td>
</tr>
<tr>
<td>AHPA 6608</td>
<td>Surgery Clerkship</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours = 48**

*Clinical Study (6 week rotations)*

### Throughout the Clerkship Year Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPA 6404</td>
<td>Master Project Track</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Hours = 4**
Course Descriptions

AHPA 5101 Introduction to the Physician Assistant Profession (1:1:0:0:0) This lecture series explores the role and socialization of the physician assistant as a healthcare professional. The course discusses the history of the profession, the evolution of the physician – PA team, maintenance of professional credentials, professional organizations, program accreditation, professional liability, practice issues and future trends. ISBN: 978-0-8036-1812-1

AHPA 5201 Medical Ethics & Jurisprudence (2:2:0:0:0) This course examines prominent ethical and legal issues in healthcare delivery. Students are engaged in discussion of ethical dilemmas relevant to clinical practice and introduced to the unique relationship of the healthcare provider and patient. The course also examines quality assurance and risk management, legal issues, practice statutes and rules regulating physician assistant practice in Texas.

AHPA 5301 Clinical Laboratory (3:3:0:0:0) This lecture series describes the significance, ordering and interpretation of laboratory studies routinely ordered in the clinical setting. Concepts of microbiology, including immunology and infectious disease will be examined. Case studies are incorporated into the teaching process. ISBN: 978-1-60547-667-4

AHPA 5306 Pharmacology I (3:3:0:0:0) This lecture series introduces the actions of basic pharmacologic agents in the human. The mechanism of action, principal actions and adverse reactions of conventional classes of drugs is examined. A review of fundamental pharmacology calculations, measurements and symbols are performed. ISBN: 978-1-4511-1314-3

AHPA 5307 Pharmacology II (3:3:0:0:0) This lecture series builds on Pharmacology I. The action and interaction of pharmacological agents is discussed. Therapeutic applications, adverse reactions and contraindications to familiar drugs are considered. ISBN: 978-1-4511-1314-3


AHPA 5309 Pediatrics (3:3:0:0:0) This lecture series surveys the acute and chronic disease states frequently encountered in the primary care setting as well as normal child growth and development, childhood immunizations, disease prevention, health maintenance and neonatology. Pediatric, patient physical examination is demonstrated and practiced. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing critical thinking and a problem oriented approach to diagnosis and treatment. Referral of patients to other healthcare providers or agencies is discussed. Case studies and patient education are
incorporated into the teaching process. This series discusses the genetic and molecular basis for selected diseases. ISBN: 0-0716-6444-0

**AHPA 5310 Medical Interviewing (3:3:2:2:0)** This course focuses on the “how to” aspects of patient interviewing, communication skills, and counseling skills. It stresses attributes of respect for self and others, adherence to the concepts of privilege and confidentiality in communicating with patients and a commitment to the patient’s welfare. Class sessions include lectures, interviewing labs and role-playing exercises. Small groups meet on a regularly scheduled basis each week to discuss and “actively” practice interviewing skills. This practice may include interviewing other students, simulated patients, or real patients in the hospital. ISBN: 978-0-8036-1246-4

**AHPA 5311 Cardiology (3:3:0:0:0)** This lecture series examines the complex disease states frequently encountered in the adult internal medicine setting. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing a problem oriented approach to diagnosis and treatment. The approach to problems in cardiology and EKG interpretation is explored. ISBN: 0071442111; ISBN: 0-9129-1206-5

**AHPA 5312 Clinical Medicine III (3:3:0:0:0)** This lecture series examines the complex Orthopaedic and Rheumatology disease states frequently encountered in the primary care medicine setting. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing critical thinking and a problem oriented approach to diagnosis and treatment. Referral of patients to other healthcare providers or agencies is discussed. The approach to problems in Orthopaedic and Rheumatology disease processes including acute, chronic, continuing, rehabilitative care is explored. Case studies and patient education are incorporated into the teaching process. ISBN: 978-0-8920-3579-3; ISBN: 0-7216-8333-9

**AHPA 5313 Clinical Medicine IV (3:3:0:0:0)** This lecture series surveys the acute and chronic disease states frequently encountered in the primary care setting. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing critical thinking and a problem oriented approach to diagnosis and treatment. The family medicine relevance to genitourinary, reproductive (including family planning) and endocrinology processes including acute, chronic, continuing, rehabilitative care are explored. Referral of patients to other healthcare providers or agencies is discussed. Case studies and patient education are incorporated into the teaching process. This series discusses the genetic and molecular basis for selected diseases. ISBN: 0781788072; ISBN: 007178182X

**AHPA 5403 Clinical Medicine I (4:4:0:0:0)** This lecture series examines the complex disease states frequently encountered in the adult internal medicine setting. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing
critical thinking and a problem oriented approach to diagnosis and treatment. The approach to problems in pulmonology and gastroenterology are explored including the important aspects acute, chronic, continuing and rehabilitative care. The role of proper nutrition for health and disease prevention is discussed. Referral of patients to other healthcare providers or agencies is discussed. The fundamentals of radiology are taught and students evaluate imaging studies. Case studies and patient education are incorporated into the teaching process. This series discusses the genetic and molecular basis for selected diseases. ISBN: 007178182X; ISBN: 978-1-4160-6109-0

AHPA 5404 Clinical Medicine II (4:4:0:0:0) This lecture series surveys the acute and chronic disease states frequently encountered in the primary care setting. Students are challenged to correlate the subjective signs and symptoms with physical examination findings and clinical pathophysiology in developing critical thinking and a problem oriented approach to diagnosis and treatment. The family medicine relevance to EENT, infectious disease, dermatology, hematology /oncology and alternative /complementary medicine and the important aspects of acute, chronic, continuing and rehabilitative care are explored. Referral of patients to other healthcare providers or agencies is discussed. Case studies and patient education are incorporated into the teaching process. ISBN: 007178182X; ISBN: 1-6152-5123-5; ISBN: 0-0715-9975-4

AHPA 5406 Physiology (4:4:0:0:0) This lecture series investigates human physiology through a detailed explanation of the functions and activities of bodily processes as related to healthcare. It discusses the fundamental principles of cellular physiology, considers the important concepts necessary for understanding the integrated cellular function of the human body and develops the explanation of human physiology as relevant to the health professional. The lectures assimilate an approach to major organs systems and develop important concepts and principles necessary for understanding the integrated function of major organ systems of the human body. ISBN: 978-0-7817-6852-8

AHPA 5407 Pathology (4:4:0:0:0) This lecture series integrates normal human physiology with the pathological basis of disease. It illustrates abnormal cellular physiologic function in disease conditions, introduces major concepts of cellular pathophysiology and demonstrates abnormal physiologic function in disease conditions. The principles of cellular pathophysiology are applied to organ system pathology and the study of representative and important diseases. The lectures examine the function of major organ systems in addressing the pathological basis for disease. This series discusses the molecular and genetic basis for selected diseases. ISBN: 978-0-0716-2167-0

AHPA 5502 Physical Examination (5:5:3:2:0) This is a lecture / laboratory series in which the adult patient physical examination is demonstrated and practiced. Students learn and apply the techniques of a comprehensive physical examination with the proper use of diagnostic instruments. Integration of the medical history (AHPA 5310 – Medical Interviewing) with the physical examination is reviewed and rehearsed. The laboratory experience utilizes students acting as patients, other simulated patients and real patients in a long term care facility. ISBN: 978-0-7817-8066-7

AHPA 6301 Clinical Medicine VI (3:3:0:0:0) This lecture series explores preventable diseases, resources for health maintenance and risk factor reduction within the community. The course considers selected acute and chronic diseases states, environmental health, occupational medicine and epidemiology. Diseases of the geriatric population, neurology, nephrology, and speech and hearing disorders are addressed. Referral to patients to other healthcare providers and agencies is discussed. Case studies and patient education are incorporated into the teaching process. ISBN: 978-0-07-178182-4

AHPA 6302 Medical Spanish (3:3:0:0:) This lecture series is designed to introduce the non-Spanish-speaking healthcare provider to basic and essential medical Spanish terminology in order to elicit information necessary to obtain a comprehensive medical history and perform a physical examination. The content is provided through an online source that students must purchase through the provider’s website.

AHPA 6304 Healthcare Management (3:3:0:0:0) This lecture series informs and prepares the graduate for basic clinical office or hospital practice management. Discussion emphasizes reimbursement issues, coding/billing procedures, licensing and authorization of privileges that are exclusive to physician assistant practice. This course provides instruction in patient safety, quality improvement, prevention of medical errors and risk management. The impact of socioeconomic issues and healthcare delivery systems are also explored. ISBN: 978-1-567-9341-2-0

AHPA 6306 Medical Psychology (3:3:0:0:0) This lecture series analyzes acute and chronic psychiatric diseases frequently encountered in primary care clinical practice. It also explores personality development, child development, normative responses to stress, psychosomatic manifestations of illness and injury, sexuality, responses to death and dying and basic counseling techniques. Adherence to the concepts of privilege and confidentiality in communicating with patients and a commitment to the patient’s welfare is stressed. The course will apply interviewing techniques, developed in AHPA 5310 – Medical Interviewing, to the approach to the patient with a psychiatric illness. ISBN: 978-0-781-7825-3-1
AHPA 6404 Master Project Track (4:4:0:0:0) This course is taught during the grand rounds held at the completion of each clerkship and includes a research and writing project. The basics of biomedical research are explored prior to the writing phase. Students are instructed on the techniques necessary to search and interpret the medical literature and its application to patient care. Students prepare and submit a manuscript for evaluation. The document must be informative, established from published evidence based research and stress current and operational knowledge of new medical findings. Throughout the clinical year during grand rounds at the end of each clinical rotation, the students are instructed and monitored in the stages of developing a text suitable for publication. No textbook is required.

AHPA 6501 Clinical Medicine V (5:5:4:2:0) This lecture series explores specialized and tertiary healthcare. Students learn the importance of the relationship between primary care practice and specialty practices. Areas of study include medical specialties, surgical specialties, and emergency medicine. Technical healthcare in sophisticated, research and teaching hospitals is evaluated. This course prepares the student for clinical clerkships. Discussions address appropriate protocol, behavior and dress within the clinical setting. Weekly workshops enable students to learn and perform procedures that are essential to clinical practice. Students perform histories and physical examinations and develop further case presentation skills. A summative evaluation of clinical skills will be administered near the end of the clinical curriculum. Case studies and patient education are incorporated into the teaching process. ISBN: 978-0-0714-1025-0; ISBN: 978-0-0714-2315-1

AHPA 6601 Family Medicine Clerkship (6:6:0:0:40) This clerkship provides experience with common diseases and chronic illnesses in the family practice setting and is composed of one six-week rotation. The learning experience includes the family medicine approach to direct care, initial care, comprehensive care and continuity of care. The student participates in the promotion and application of preventive medicine and wellness maintenance techniques as an important aspect of family practice. ISBN: 0-7166-444-0; ISBN: 978-0-17-176372-1; "Physician Assistant’s Prescribing Reference", Prescribing Reference Inc.

AHPA 6602 Internal Medicine Clerkship (6:6:0:0:40) This clerkship provides clinical experience with acute and chronic illnesses seen in the general internal medicine practice and is composed of one six week rotation. The student experiences the traditional approach to the comprehensive care of adult patients to include continuity of care. Clinical experience in preventive medicine, health and wellness maintenance techniques, especially in secondary and tertiary settings, is provided. ISBN: 978-0-17-176372-1; ISBN: 0-0714-6633-9; ISBN: 978-1-6054-7675-9
AHPA 6603 Prenatal Care and Gynecology Clerkship (6:6:0:0:40) This clerkship provides a six-week clinical experience in the care of prenatal and gynecologic patients. Training will emphasize the examination of the female patient with focus on the most common gynecologic problems and their diagnostic assessment, the formulation of appropriate treatment plans, the utilization of preventive medicine modalities and the evaluation and education of the pre-natal patient. ISBN: 0-07-1763-72-4; “Physician Assistant’s Prescribing Reference”, Prescribing Reference Inc.

AHPA 6604 Pediatrics Clerkship (6:6:0:0:40) The Pediatric clerkship is designed to provide PA students with experience in the specialty of pediatric medicine and is composed of one six week rotation. This clerkship provides the opportunity for students to gain general pediatric knowledge and to apply that clinical knowledge to the development of the necessary proficiency for a PA to function in a primary care pediatric setting. ISBN: 0071664440

AHPA 6605 Emergency Medicine Clerkship (6:6:0:0:40) The Emergency Medicine clerkship will provide the PA student with experience in the emergency department with urgent and emergent medical problems and with trauma and surgical cases and is composed of one six week rotation. It includes the emergency approach to direct initial and comprehensive care for patients in the acute care setting. ISBN:978-0-0714-1025-0


AHPA 6607 Psychiatry Clerkship (6:6:0:0:40) The six-week Psychiatry clerkship provides experience with common acute and chronic psychiatric diseases and illnesses in both the outpatient and inpatient settings. The student learns about and interacts with public and private treatment facilities for substance abusers and their affiliated support groups, local public counseling agencies, and state psychiatric facilities. ISBN: 978-1-4051-0502-6; ISBN: 978158622726

AHPA 6608 General Surgery Clerkship (6:6:0:0:40) The six-week clerkship in surgery provides experience in the presentation and treatment of surgical disease and illness. This rotation allows the PA student to experience the approach to and the management of the surgical patient in the pre-operative, intra-operative, and postoperative phase of care. ISBN: 0-7817-7076-9
DEPARTMENT OF
REHABILITATION SCIENCES
Program in Athletic Training

The Master of Athletic Training (MAT) program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664 (http://www.caate.net).

The AT Profession

“Certified Athletic Trainers are unique health care providers who specialize in the prevention, assessment, treatment and rehabilitation of injuries and illness” as described by the National Athletic Trainers’ Association (NATA). Athletic Trainers are integral members of the healthcare team, working under the direction of a licensed physician and in collaboration with other healthcare professionals, administrators, coaches, and parents. Career opportunities exist in settings such as college/university athletic departments, secondary school systems, professional sports, sports medicine clinics, corporate/industrial settings, physicians offices, and other healthcare environments.

The American Medical Association recognized athletic training as an allied health profession in 1990. As athletic training has evolved into a recognized allied health profession, the profession has undergone major educational reform.

After graduating from an accredited professional education program, athletic trainers must pass the Board of Certification, Inc. (BOC) exam and/or meet the requirements of individual states, to practice athletic training. Additional credentialing requirements for athletic training vary from state to state according to athletic training practice acts and state regulations that govern athletic training. A felony or misdemeanor conviction may affect a graduate’s ability to sit for the BOC examination or attain state licensure.

Program Description

In July 2000, the Master of Athletic Training program at TTUHSC received notification from the Texas Higher Education Coordinating Board (THECB) that TTUHSC had been granted approval to offer the Master of Athletic Training degree beginning in the Fall of 2000. With THECB approval the Master of Athletic Training program began working toward accreditation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The MAT program was granted CAAHEP accreditation in January 2004. As of July 1, 2006 all athletic training education programs (including the MAT program) are accredited by CAATE. The MAT program received the maximum (10 year) continuing accreditation by CAATE in 2009.

Educational reform in the field of athletic training and the needs of the West Texas area have prompted the development of an innovative, modern educational program in the School of Allied Health Sciences at Texas Tech University Health Sciences Center. The Master of Athletic Training degree
program is a 59 semester credit hour, two-year lock step graduate program providing comprehensive exposure to the field of Athletic Training. Classroom, clinical laboratory, and clinical experiences are integrated throughout the professional curriculum. Settings for clinical experiences include colleges, high schools, allied health clinics, as well as physicians offices, and the opportunity to view a variety of surgical procedures. By providing clinical experience early in the professional education, students are able to integrate classroom and clinical skills. Students must pass a criminal background check in order to participate in clinical experiences. The program is housed on the Lubbock campus within the TTUHSC system. Upon graduation from the MAT program students will be eligible to sit for both the BOC and State licensure examinations, which vary by state. Individuals must pass these examinations before they are eligible to practice Athletic Training. Successful completion of the professional curriculum leads to a Master of Athletic Training degree.

Classes are limited to 25-30 full-time students to ensure optimal student/instructor ratios and to enable each student to receive comprehensive instructional and clinical experience. Students entering the program should have a laptop computer and be familiar with basic Internet skills, including the use of e-mail, searching the World Wide Web, and using a basic word processing package. Students without a laptop must purchase one and become familiar with it prior to beginning the program.

**Admission to the Program**

The athletic training program begins the Tuesday after Memorial Day each year. Class size is limited and the admissions process is very competitive.

**Application Process**

The following information is required for an individual to be considered for the MAT program:

1. A completed and submitted online application (including essay)
2. Two letters of recommendation
3. A complete essay
4. Official transcripts from all colleges/universities attended (*see Prerequisites section*)
5. Verification of observation hours (see Experience section)

Additionally, the following information must be provided prior to a student’s matriculation in the MAT program:
• Completed Essential Functions/Technical Standards form (*see Essential Functions section)
• Verification of all required immunizations.

The Office of Admissions and Student Affairs accepts applications each year between August 1st and February 1st for admission into the class beginning the following May. Applicants wishing to apply for early acceptance should submit their application by October 15th. It is in the best interest of the applicant to apply as early as possible. All application materials should be sent to the TTUHSC Office of the Registrar. It is the applicant’s responsibility to ensure all application materials have been received by the TTUHSC Registrar’s Office prior to the application deadline.

Qualified candidates selected by the Athletic Training Admissions Committee will be contacted for either a phone or on-campus interview. Fulfillment of the basic admissions requirements does not guarantee admission. Acceptance into the MAT program is based on a holistic scoring system including grade point average (cumulative and prerequisite courses), completion of all prerequisite courses, athletic training observation/experience, essay, letters of recommendation and interview (professional and scholastic aptitude) scores.

**Prerequisite Courses**

Applicants must have earned a Bachelor’s degree from an accredited college or university, complete the application process (outlined above), and have completed or plan to complete all prerequisite courses with a 2.7 G.P.A. on a 4.0 scale and a “C” or better prior to enrollment.

<table>
<thead>
<tr>
<th>Required Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Anatomy (or A&amp;P I)</td>
<td>3-4</td>
</tr>
<tr>
<td>Human Physiology (or A&amp;P II)</td>
<td>3-4</td>
</tr>
<tr>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Kinesiology/Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>Statistics (Tests &amp; Measurement is not accepted)</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Physics with lab (recommended)</td>
<td>(3)</td>
</tr>
<tr>
<td>Chemistry with lab (recommended)</td>
<td>(3)</td>
</tr>
<tr>
<td>Technical Writing (recommended)</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Total Required Hours = 20**

If prerequisite courses have not been completed in the last seven years, program director approval for acceptance of courses may be required.

**TEXAS TECH UNIVERSITY EQUIVALENT COURSES**

To qualify for admission, applicants must have completed or planned to complete all prerequisite courses from a regionally accredited two-year college, or college/university in the United States prior to enrollment. The courses listed below are
the Texas Tech University Equivalent of the prerequisite courses required to apply for admission into the Athletic Training program.

<table>
<thead>
<tr>
<th>Biological Sciences</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 2403 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2404 Human Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Hours = 8**

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2300 Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>or PSY 3400 Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Hours = 3**

<table>
<thead>
<tr>
<th>Exercise Physiology</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 3305 Exercise Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Hours = 3**

<table>
<thead>
<tr>
<th>Nutrition</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>F&amp;N 1325 Nutrition, Foods, and Healthy Living</td>
<td>3</td>
</tr>
<tr>
<td>or F&amp;N 1410 Science of Nutrition</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Hours = 3**

<table>
<thead>
<tr>
<th>Health, Physical Education, &amp; Recreation</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 3301 Biomechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Hours = 3**

<table>
<thead>
<tr>
<th>Chemistry (recommended)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1307 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1107 (Lab)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Recommended Hours = 4**

<table>
<thead>
<tr>
<th>Physics (recommended)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1403 General Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Recommended Hours = 4**

**GPA Requirements**

To be considered for admission, cumulative and prerequisite grade point averages of 2.7 on a 4.0 scale are required. Additionally, students must possess a “C” or better in all prerequisite courses. Provisional admission may be offered to applicants with a GPA of less than 2.7. Such applications will be reviewed on an individual basis.
Experience

Applicants are expected to have some knowledge of the athletic training profession. This can be acquired in several ways: volunteer work, paid employee, and/or observation under the direction of a BOC certified (ATC) or a Texas licensed (LAT) athletic trainer. Applicants must have a minimum of 50 clock hours of observation experience under a BOC certified or a Texas licensed athletic trainer prior to submitting an application for admission.

Essential Functions (Technical Standards)

A student admitted into the Athletic Training program must meet essential functions/technical standards that are necessary to be able to obtain employment. These are established minimum physical and mental guidelines necessary for the MAT program. Prior to matriculation, all students must submit verification of their ability to perform at or above the minimum physical and mental guidelines established by the Department of Rehabilitation Sciences. A list of the essential functions for the MAT program and the Department of Rehabilitation Sciences can be found in the Department of Rehabilitation Sciences Student Handbook (http://www.ttuhsc.edu/sah/current/handbooks.aspx) or obtained from the MAT program director. Please familiarize yourself with the essential functions document.

Transfer Policy

Students who wish to transfer to one of the Texas Tech University Health Sciences Center (TTUHSC) School of Allied Health Sciences (SOAHS) programs from an equivalent degree program must meet the specific program’s admissions criteria and be subjected to the same admissions process as a traditional applicant. A transfer student may be eligible for waiver from classes taken at their previous institution. The student must provide supporting documents specified by the program for courses to be waived. The decision to allow the student to waive the course will be made by the Program Director on a case-by-case basis. Meeting minimum requirements does not guarantee admissions.

Athletic Training Curriculum

The following courses are offered once each year in the semester listed and must be taken in sequence unless granted permission by the course instructor and the MAT Program Director.

<table>
<thead>
<tr>
<th>Summer Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5320</td>
<td>Introduction to Clinical Education</td>
</tr>
<tr>
<td>AHAT 5500</td>
<td>Human Anatomy</td>
</tr>
</tbody>
</table>

**Total Hours = 8**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5200</td>
<td>Research Methods</td>
</tr>
</tbody>
</table>
### Spring Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5212</td>
<td>Strength Training &amp; Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5206</td>
<td>Clinical Experience II</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5304</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>AHAT 5322</td>
<td>Athletic Training Administration</td>
<td>3</td>
</tr>
<tr>
<td>AHAT 5324</td>
<td>Lower Extremity Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours = 14**

### Second Year

#### Summer Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5120</td>
<td>Research Directed Study I</td>
<td>1</td>
</tr>
<tr>
<td>AHAT 5210</td>
<td>Head, Neck &amp; Spine Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5098</td>
<td>Practicum or Independent Study Options to Qualify (Optional) for Financial Aid</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours = 3**

#### Fall Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5130</td>
<td>Athletic Training Review</td>
<td>1</td>
</tr>
<tr>
<td>AHAT 5223</td>
<td>Special Populations</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5225</td>
<td>Clinical Experience III</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5323</td>
<td>Management &amp; Identification of General Medical Conditions</td>
<td>3</td>
</tr>
<tr>
<td>AHAT 5401</td>
<td>Upper Extremity Evaluation</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Hours = 12**

#### Spring Semester Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHAT 5214</td>
<td>Seminar in Athletic Training</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5227</td>
<td>Current Medical Diagnosis &amp; Treatment</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5228</td>
<td>Clinical Experience IV</td>
<td>2</td>
</tr>
<tr>
<td>AHAT 5302</td>
<td>Rehabilitation of Sports Injuries</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours = 9**

**Total Program Hours = 59**

During professional studies, students are required to adhere to all university, school, department, the TTUHSC Student Affairs Handbook Code and Academic Conduct, and program policies including academic and behavioral guidelines as stated in this catalog and the Department of Rehabilitation Sciences Student Handbook. Expenses (i.e. travel, bags, clothing, Criminal Background Check, Immunizations, etc.) associated with clinical experiences and the program are
the responsibility of the student. Information regarding expenses may be found on the MAT program website.

**Laptop Computer Requirement**

The Master of Athletic Training (MAT) Program has the requirement that all incoming students must have a laptop computer. Below is a list of the minimum recommendations for your laptop computer hardware.

**General Recommendations for Laptop Computers**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel processor, or AMD processor, 2.0 GHz or greater</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows XP or later; Mac OS x 10.5 or higher</td>
</tr>
<tr>
<td>Memory (RAM)</td>
<td>2 GB RAM or greater</td>
</tr>
<tr>
<td>Storage</td>
<td>120 GB SATA hard drive or greater</td>
</tr>
<tr>
<td>Video</td>
<td>128 MB video card or integrated graphics</td>
</tr>
<tr>
<td>Network</td>
<td>Built in LAN and 802.11 Wi-Fi</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>DVD +/- RW optical drive</td>
</tr>
</tbody>
</table>

Texas Tech University Health Sciences Center students have access to several free software downloads. One of the most useful is Microsoft Office, therefore **DO NOT** purchase Microsoft Office prior to arriving on the TTUHSC campus. Additional information regarding these free software downloads will be provided during orientation.

**Course Descriptions**

**AHAT 5098 Practicum in Athletic Training (v. 1-6)** A hands-on athletic training related experience designed to meet the individual needs of the student. No textbook is required.

**AHAT 5099 Independent Study in Athletic Training (v. 1-6)** This course involves an independent project designed to meet the individual students needs and/or interests. This may include, but is not limited to, a research project, course/skill review, or laboratory teaching assistants (anatomy or other courses). No textbook is required.

**AHAT 5120 Research Directed Study I (1:1:1:0:0)** A case based approach to research design, incorporating the management, reduction, and analysis of data sets. Information related to applying for jobs, interviewing, and writing cover letters and resumes is covered. ISBN: 978-0-13-171640-7

**AHAT 5130 Athletic Training Review (1:1:1:0:0)** This course is devoted to developing a study schedule and registering for the Athletic Training credentialing exams. Comprehensive exams will allow the students to assess their readiness to sit for the BOC and Texas Licensure exams. BOC Role Delineation Study, NATA Position Statements

*School of Allied Health Sciences*
AHAT 5200 Research Methods (2:2:2:0:0) Development of a working knowledge of descriptive and experimental research techniques and statistics and an introduction to performing electronic database searches, and critiquing the literature will be included. ISBN: 978-0-13-171640-7

AHAT 5201 Clinical Experience I (2:2:0:6) A supervised educational experience in athletic training under the supervision of a certified athletic trainer or other healthcare professional. The objective is to obtain hands-on experiences in a variety of athletic training settings including intercollegiate, high school, and clinical/industrial. No textbook is required.

AHAT 5206 Clinical Experience II (2:2:0:6) A supervised educational experience in athletic training under the supervision of a certified athletic trainer or other healthcare professional. The objective is to obtain hands-on experiences in a variety of athletic training settings including intercollegiate, high school, and clinical/industrial. No textbook is required.


AHAT 5212 Strength Training and Conditioning (2:2:1:0:3) This course include analysis of the conceptual theoretical, and technical considerations of assessing, designing, and implementing strength training and conditioning programs. Additional, the application of contemporary periodization concepts and common methods of athletic assessment will also be addressed. ISBN: 978-0-7360-5803-2; ISBN: 978-07-7360-7127

AHAT 5214 Seminar in Athletic Training (2:2:1:0:3) Graduate seminar focusing on current events in athletic training and preparation for BOC certification and Texas Licensure athletic training credentialing exams. Psychosocial concerns and issues will be discussed. ISBN: 978-1-55642-733-6: BOC Role Delineation Study


AHAT 5225 Clinical Experience III (2:2:0:6) A supervised educational experience in athletic training under the supervision of a certified athletic trainer or other healthcare professional. The objective is to obtain hands-on experiences in a variety of athletic training settings including intercollegiate, high school, and clinical/industrial. No textbook is required.
AHAT 5227 Current Medical Diagnosis and Treatment (2:2:2:0:0) Physician presentation of the medical approach to the management of musculoskeletal disorders and afflictions. Course content includes etiology, differential diagnosis, prognosis, medical and surgical management, and prophylactic measures for each condition relevant to athletic training. ISBN: 978-0-8036-1946-3

AHAT 5228 Clinical Experience IV (2:2:0:0:6) A supervised educational experience in athletic training under the supervision of a certified athletic trainer or other healthcare professional. The objective is to obtain hands-on experiences in a variety of athletic training settings including intercollegiate, high school, and clinical/industrial. No textbook is required.

AHAT 5300 Advanced Anatomy for Sports Medicine (3:3:2:0:3) THIS COURSE IS NOT FOR MASTER OF ATHLETIC TRAINING STUDENTS. Integrated study of gross human anatomy embodying gross morphology and coordinating with development and histological aspects of the body. Included in regional dissection with emphasis on integumentary, musculoskeletal, nervous, and circulatory systems of the extremities. ISBN: 978-0-7817-7525-0

AHAT 5302 Rehabilitation of Sports Injuries (3:3:2:0:3) Assimilation of all aspects of patient evaluation, treatment, and rehabilitation of injuries, with a focus on functional rehabilitation and return to activity. ISBN: 978-0-8036-1364-5

AHAT 5304 Pharmacology (3:3:3:0:0) This course will cover topics such as cell biology, and pharmacology as they relate to the athletic training profession. ISBN: 978-0-8036-1377-5

AHAT 5305 Biomechanics (3:3:3:0:0) Biomechanics of the musculoskeletal system and integrated human movement with clinically relevant applications. ISBN: 978-0-7817-7422-2

AHAT 5320 Introduction to Clinical Education (3:3:1:0:6) This course is an introduction to basic skills necessary to practice as an athletic training student. The main concept to be covered include medical terminology, basic documentation, blood-borne pathogens training, first responder responsibilities, CPR/first-aid techniques, taping techniques, safe modality application and identification of common general medical conditions. Hands on surface anatomy with palpation labs are utilized. ISBN: 978-1437734409; ISBN: 978-0-7817-7550-2
AHAT 5322 Athletic Training Administration (3:3:3:0:0) This course discusses planning, coordinating, and supervising all administrative components of an Athletic Training program. Coverage includes theories and concepts in the management of sports healthcare delivery systems, facilities, equipment, and financial resources. ISBN: 978-0-7360-7738-5

AHAT 5323 Management/Identification of General Medical Conditions (3:3:2:0:3) Study of the etiology, pathology, and clinical manifestations of common illnesses, infectious diseases, and dermatological conditions in athletic populations. ISBN: 978-1-55642-770-1


AHAT 5325 Therapeutic Modalities (3:3:2:0:3) This course emphasizes the use of physical agents, biofeedback and expands upon the theory, principles, literature review and clinical applications associated with patient management. ISBN: 978-0-8036-1139-9


Master of Occupational Therapy

The OT Profession

Institution Mission
The mission of Texas Tech University Health Sciences Center (TTUHSC) is to improve the health of people by providing high quality educational opportunities to students and health care professionals, advancing knowledge through scholarship and research, and providing patient care and service.

Program Mission
The mission of the TTUHSC Master of Occupational Therapy Program is to improve the health of individuals and communities. First, we are committed to preparing students with the knowledge, skills, behaviors, and clinical reasoning for occupational therapy practice. Second, we pursue scholarship by engaging in collaborative research with students, colleagues, and area clinicians. Finally, we serve the community through providing continuing education opportunities and patient care.

Philosophy Statement

<table>
<thead>
<tr>
<th>G</th>
<th>Grounded in Bloom’s Taxonomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Occupation-based approaches</td>
</tr>
<tr>
<td>T</td>
<td>Teamwork in scholarship and practice</td>
</tr>
<tr>
<td>E</td>
<td>Education of future professionals</td>
</tr>
<tr>
<td>C</td>
<td>Clinical Reasoning/Case Mapping</td>
</tr>
<tr>
<td>H</td>
<td>Hands on learning</td>
</tr>
</tbody>
</table>

Beliefs about Humans
Human beings possess a unique array of interests, values, skills, abilities, and experiences which influence the way one perceives, chooses, and engages in various, meaningful activities (also called occupations). Occupations are the ordinary and familiar things that people do everyday. The person’s selection of and engagement in these meaningful activities contributes to one’s identity and sense of purpose thereby influencing how one spends time and makes decisions.

Beliefs about the Nature of Occupational Therapy
Occupational therapy is the art and science of helping people do the day to day activities that are important and meaningful to their health and well-being. Within occupational therapy, engagement in valued occupations is used as a means of treatment to promote health and well being. Valued occupations encompass the following areas: self-care, learning, work, play, leisure, social participation, and rest.

Occupational therapists work collaboratively with individuals, families, caregivers, and other groups whose life patterns and ability to engage in valued
occupations have been altered as a result of various circumstances (i.e. cognitive or developmental problems, injury or illness, social or emotional deficits, or the aging process). The occupational therapist applies clinical reasoning as they plan, facilitate, and reflect on client care. The focus of occupational therapy is to facilitate the individual’s ability to participate in meaningful, purposeful activities (occupations) at home, school, workplace, community, and various other settings.

**Current occupational therapy practice areas:**

- Hospitals
- Rehabilitation centers
- Nursing homes
- Schools
- Home health
- Private practice
- Industry
- Community mental health
- Hand rehabilitation
- Burn centers
- Return-to-work programs
- Homeless shelters
- Retirement planning services
- Hospice services

**Emerging occupational therapy practice area:**

- Driver Rehabilitation & Training
- Low Vision Services
- Ticket to Work Services
- Home Modifications Access
- Technology & Assistive Device
- Ergonomics Consulting
- Health & Wellness Consulting
- Welfare to Work Services
- Community Health Practice
- Psychosocial Needs of Youth

**Beliefs About the Nature of Learning**

Human beings learn through and are shaped by experiences throughout their lives. Opportunities for learning occur in many ways, such as acquiring knowledge, skill development, and personal growth. Through these varied experiences, changes in a person’s knowledge, abilities, behavior, and attitudes occur.

Within the occupational therapy program, we believe that the optimal way to facilitate student learning is through processes involving the development of knowledge and reflective thinking. Students develop an understanding of a person(s) from an occupational perspective as they actively engage in opportunities to integrate and synthesize new learning with foundational concepts. As fundamental concepts are introduced and reintroduced in increasing complexity, students build skills that will guide clinical reasoning making. Bloom’s levels of learning serve as an important component of the curriculum’s framework that guides the student learning process. The levels are as follows: knowledge/ comprehension, application, analysis, synthesis and evaluation (Bloom, 1984). The second curriculum component consists of the following six threads: Fundamental Concepts, Theoretical Foundations, Clinical
Reasoning, Research Methods, Occupational Therapy Processes, and Professional Practice. The curriculum design fosters the development and application of student’s knowledge, skills, behaviors, and attitudes needed for occupational therapy practice as concepts within the threads are introduced and reintroduced in increasing complexity (e.g., levels of analysis and synthesis/evaluation). The program further fosters the development and application of student’s clinical reasoning over the course of the curriculum through involvement in hands on learning, research methods, and problem solving for professional practice.

**Program Accreditation and Policy**

The Occupational Therapy Program at TTUHSC is located in Lubbock, Texas. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, Suite 200 Bethesda MD, 20814-3449. ACOTE’s telephone number c/o AOTA is (301) 652-2682 and additional information is located on the website at www.acoteonline.org

Texas Tech University Health Sciences Center is accredited by the Southern Association of Colleges and Schools (SACS). Additional information regarding SACS can be located at http://www.sacs.org/.

During the program, students are required to adhere to all program, departmental, and school policies as outlined in the student handbooks, fieldwork manual, and course syllabi. Students typically complete Level II Fieldwork within 12 months following completion of the didactic portion of the program. Successful completion of the program leads to a Master of Occupational Therapy (M.O.T.) degree. Graduates of the program will be eligible to sit for the National Certification Examination for the Occupational Therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, most states require licensure to practice; however, state licenses are usually dependent upon the results of the NBCOT Certification Examination. A felony conviction may affect a graduate’s ability to sit for the NBCOT Certification Examination or attain state licensure.

**Fieldwork**

Fieldwork education is an integral aspect of our program. Students must pass a Criminal Background Check in order to participate in fieldwork experiences, as well as some lab experiences. The student is responsible for fees related to a Criminal Background Check, Drug Screening, and Immunizations. Students must be approved for fieldwork placement by the Program Director and the Academic Fieldwork Coordinator. Considerations in this recommendation include student’s academic performance, completion of program requirements, and demonstration of adequate professionalism and behaviors indicative of the ability to be effective and productive during clinical training. This includes problem solving ability and critical thinking. Students on Fieldwork assignments
are expected to follow safety procedures of the clinical site, plus any other requirements deemed important by the Academic Fieldwork Coordinator and/or Fieldwork Educator for a specific clinical site. Behaviors observed during the professional curriculum are taken to be a measure of a student’s readiness for Clinical Fieldwork. Students are responsible for all costs associated with fieldwork including transportation, housing, meals, uniforms, Criminal Background Checks, and other incidental expenses.

Students will be involved in Level I Fieldwork experiences during the second year in the program. Following completion of all academic courses, students undertake 24 weeks of full-time Level II Fieldwork. No part of Fieldwork Level I may be substituted for any part of Fieldwork Level II. The length of the entire program is two and a half years. Level II Fieldwork is typically completed within 12 months following the completion of academic preparation.

Fieldwork education consists of four experiences designed to prepare and expose the student to a variety of applied settings in occupational therapy:

1. Fieldwork I: Pediatric Process in Fieldwork and Fieldwork I: Psychosocial Group Process occur in the summer semester of the second year. The student’s fieldwork experiences will be ongoing through the summer semester and will include clinical experiences through the community. The student will actively participate in occupational therapy clinical situations to develop professional and clinical skills as well as an understanding of clinical settings.

2. Fieldwork I: Adult Physical Dysfunction occurs prior to beginning classes in the spring semester of the second year. The student actively participates in occupational therapy as it is practiced in a physical disabilities setting for a total of 80 hours.

3. Fieldwork II: 1 This full-time fieldwork experience typically begins in June of the third year. The student integrates client evaluation and intervention planning/implementation skills and develops entry-level competency in essential skills. The student has the opportunity to develop advanced competencies beyond entry-level where applicable.

4. Fieldwork II: 2 This full-time fieldwork experience typically begins in September of the third year. The student integrates client evaluation and intervention planning/implementation skills and develops entry-level competency in essential skills. The student has the opportunity to develop advanced competencies beyond entry-level where applicable.

Clinical facilities that have occupational therapy clinical education agreements with TTUHSC may be used for Fieldwork sites. The M.O.T. Academic Fieldwork Coordinator provides detailed information for selection procedures. The student’s selection of a Fieldwork site must be approved by the M.O.T. Academic Fieldwork Coordinator and/or the Program Director prior to the student enrolling in the applicable Fieldwork courses. The M.O.T. Academic Fieldwork
Coordinator reserves the right not to approve a student’s selection of any clinical education site. The M.O.T. Academic Fieldwork Coordinator may consult with M.O.T. faculty and the M.O.T. Program Director in order to determine a Fieldwork placement for any student.

As such, the M.O.T. Academic Fieldwork Coordinator further reserves the right to place the student at any clinical site determined necessary for successful completion of a student clinical fieldwork experience, or to not allow a student to enroll in a clinical fieldwork experience, for the following reasons:

1. The student is on Academic Probation.
2. The student has previously displayed behavior resulting in counseling using the Generic Abilities.

## Admission to the Program

Admission to the M.O.T. Program occurs in late May of each year. A Bachelor’s Degree is required for admission into the program. The completion of the Pre-Professional Curriculum is required prior to starting the program. Courses may be completed in any regionally accredited community college, college, or university. The GRE is not required for admission into the program.

## Pre-Professional Curriculum

Below is the list of the courses that comprise the Pre-Professional Curriculum.

### Required Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy and Physiology (with lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Physics, and/or Biomechanics, and/or Kinesiology</td>
<td>3-4</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Developmental Psychology (across the lifespan)</td>
<td>3</td>
</tr>
<tr>
<td>Electives*</td>
<td>58-60</td>
</tr>
</tbody>
</table>

*For electives: We recommend courses focusing on human behavior, biomechanics, developmental psychology, physical/cultural/social environment or human occupations and/or on the skills needed in contemporary healthcare practice.

For more information regarding course equivalents, see the TTUHSC School of Allied Health Sciences (SOAHS) Course Catalog for Texas Tech course equivalents or contact the Office of Admissions and Student Affairs.
GPA Requirements

A minimum cumulative GPA of 3.0 on a 4.0 scale is required and a minimum Science GPA of 3.0 on a 4.0 scale is required. A competitive overall GPA and science prerequisite GPA are a consideration for admissions. A grade of C or better is necessary in each required pre-professional course.

The Application Process

Applicants seeking early acceptance should submit their application by October 15th; all other applications must be submitted by December 15th. It is in the best interest of the applicant to apply as early as possible.

To be considered for admission, the applicant must complete and submit the online application and the required documentation. Documentation to be submitted includes: transcripts, verification of observation/experience hours in occupational therapy settings, two recommendation letters, verification of required immunizations, verification of current CPR certification, and personal essay. The application is located online at www.ttuhsc.edu/merlin.

Transcripts and coursework: Applicants must submit transcripts of all institutions attended. At the time of application, the student must demonstrate the ability to complete all pre-professional coursework prior to enrollment in the first semester of the professional curriculum. At the time of application, all prerequisite coursework must be completed within the last seven years. Applicants whose science coursework is more than seven years old should contact the academic advisor in the Office of Admission and Student Affairs for decisions concerning course acceptability. No more than 9 hours of prerequisites can be in progress and at least two science pre-requisites must be complete for a file to be reviewed. AP and CLEP credit will not be accepted for any science prerequisite course. There is no advanced placement, transfer of credit or experiential learning credit within the TTUHSC MOT program.

Experience: Applicants are expected to have some knowledge of the occupational therapy profession. This can be acquired in several ways: volunteer work, paid work and/or observation in occupational therapy settings/services. It is in the best interest of the applicant to complete a substantial number of experiential hours (a minimum of 40 hours, preferably in a variety of different settings), prior to the application deadline for the program. Verification of observation/experience hours in occupational therapy practice must be submitted as a part of the application. Applicants are also encouraged to become familiar with the occupational therapy profession through exploring the professional literature and online sources.

Letters of Recommendation: Two letters of recommendation are required. One letter must be completed by an occupational therapist. Letters should be completed by professional personnel who have: (a) observed the applicant during any related volunteer, observation, or paid work, (b) been previous or present instructors and/or counselors, or (c) been previous or present employers.
**Immunizations and CPR:** Verification of required immunizations and CPR for the Professional certification must be submitted prior to enrollment in professional curriculum, or preferably by the application deadline. CPR certification must be maintained throughout the professional program. Immunizations will be maintained by a national database which requires an annual fee to be paid by the student.

**Personal essay:** The personal essay should be submitted with the application.

**Personal interview:** To be considered an eligible applicant, one must meet the admission criteria and complete the application process prior to the deadline. The Master of Occupational Therapy admissions committee reviews all completed applications. Competitive applicants are interviewed via phone or onsite during the Fall or Spring semesters. Submitting an application does not guarantee an interview.

---

**Bachelor of Science in Health Science (B.S.H.S.) Degree**

The B.S.H.S. degree is an option for students who enter the M.O.T. Program without a undergraduate degree. M.O.T. students have an opportunity to earn a bachelor's degree once they have successfully completed: (a) all of the core curriculum requirements for a baccalaureate degree in the State of Texas, and (b) at least one year of the M.O.T. Program coursework. Requirements and eligibility for this degree are handled by the School of Allied Health Sciences Office of Admissions. The B.S.H.S degree will be phased out after May 2014.

---

**Occupational Therapy Curriculum**

This program prepares the student to enter the field of occupational therapy with a background in fundamental concepts, theoretical foundations, clinical reasoning, occupational therapy processes, professional practice, and research methods. The curriculum covers the life span from birth to older adults, reflecting a broad perspective on physical, cognitive, emotional, social and biological issues affecting a person's performance in meaningful occupations. Lectures, case studies, concept mapping, laboratory experiences and clinical education provide opportunities to integrate prior knowledge with new learning and develop competency in clinical reasoning. This program fosters professional behavior and relies on community experiences to incorporate the classroom material into clinical practice. Class sizes are restricted to ensure optimal student/instructor ratios and to enable each student to receive comprehensive instructional and clinical experience.

Students entering the program should have ready access to a computer and be familiar with basic internet skills (including the use of email, World Wide Web, and basic word-processing package). Students without computers are encouraged to purchase one and become familiar with it prior to beginning the program.
### FIRST YEAR

**M.O.T. 1 Summer Semester**
- AHOT 5500  Human Anatomy
- AHOT 5209  Applied Kinesiology in Occupational Therapy
- AHOT 5220  Introduction to Occupational Therapy

**Total Hours = 9 hours**

**M.O.T. 1 Fall Semester**
- AHOT 5330  Conditions in Occupational Therapy: Part 1
- AHOT 5319  Occupational Performance Throughout the Lifespan
- AHOT 5310  Theory and Foundations of Occupational Therapy
- AHOT 5313  Introduction to Evaluation and Intervention in Occupational Therapy
- AHOT 5316  Research Process in Occupational Therapy

**Total Hours = 15 hours**

**M.O.T. 1 Spring Semester**
- AHOT 5317  Hand and Upper Extremity Rehabilitation
- AHOT 5311  Overview and Analysis of Occupational Therapy Assessment
- AHOT 5207  Psychosocial Intervention in Occupational Therapy
- AHOT 5227  Introduction to Clinical Reasoning
- AHOT 5327  Evidence for Research and Practice
- AHOT 5430  Conditions in Occupational Therapy: Part 2

**Total Hours = 17 hours**

### SECOND YEAR

**M.O.T. 2 Summer Session**
- AHOT 5140  Fieldwork I: Pediatric Process in Fieldwork
- AHOT 5215  Fieldwork I: Psychosocial Group Process
- AHOT 5314  Health and Community Settings

**Total Hours = 6 hours**

**M.O.T. 2 Fall Session**
- AHOT 5116  Elective Fieldwork I (Elective-Optional)
- AHOT 5105  Clinical Reasoning for Fieldwork
- AHOT 5312  Occupational Therapy Practice: Assistive Technology
- AHOT 5449  Occupational Assessment and Intervention in Children and Adolescents
- AHOT 5450  Occupational Assessment and Intervention in Adults and Older Adults

**Total Hours = 12-13 hours**

**M.O.T. 2 Spring Semester**
- AHOT 5201  Fieldwork I: Adult Physical Dysfunction
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHOT 5101</td>
<td>Clinical Reasoning for Practice</td>
</tr>
<tr>
<td>AHOT 5315</td>
<td>Organization and Management in Occupational Therapy</td>
</tr>
<tr>
<td>AHOT 5320</td>
<td>Occupational Therapy Practicum</td>
</tr>
<tr>
<td></td>
<td>Section 1: Adult Rehab</td>
</tr>
<tr>
<td></td>
<td>Section 2: Hand</td>
</tr>
<tr>
<td></td>
<td>Section 3: Neuro</td>
</tr>
<tr>
<td></td>
<td>Section 4: Pediatrics</td>
</tr>
<tr>
<td></td>
<td>Section 5: Mental Health</td>
</tr>
<tr>
<td>AHOT 5226</td>
<td>Professional Development in Occupational Therapy</td>
</tr>
</tbody>
</table>

**Total Hours = 11 hours**

**THIRD YEAR**

**Third Summer Session**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHOT 5931</td>
<td>Fieldwork II: 1</td>
</tr>
</tbody>
</table>

**Total Hours = 9 hours**

**Third Fall Session**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHOT 5932</td>
<td>Fieldwork II: 2</td>
</tr>
</tbody>
</table>

**Total Hours = 9 hours**

**Total Curriculum Hours = 88 hours**

**Course Descriptions**

**AHOT 5071 Fieldwork II: Specialization (9:9:0:0:9)** Prerequisites: AHOT 5931, 5932 Optional additional full-time, supervised clinical experience in an area/facility of the student’s choice. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, and synthesis/evaluation. No text is required for this course.

**AHOT 5072 Special Topics in Occupational Therapy (1:1:1:0:0)** Selected topics of interest to occupational therapy. Please note that this course is not offered every year. No text is required for this course.

**AHOT 5101 Clinical Reasoning for Practice (1:1:1:0:0)** This course will prepare students for their level II fieldwork rotations and will require students to utilize advanced clinical reasoning skills. This course will address the shift from classroom to clinic, supervision, dealing with fieldwork related problems, and preparing for the national certification exam. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, synthesis, and evaluation. ISBN: No text is required for this course.

**AHOT 5105 Clinical Reasoning for Fieldwork (1:1:1:0:0)** This course focuses on preparing students for their final Fieldwork placements. Professional behavior, ethics, supervision, clinical reasoning, and tools/strategies for a successful fieldwork experience will be utilized in this course. Student levels
of learning in this course focus on application and analysis. ISBN: No text is required for this course.

**AHOT 5116 Elective Fieldwork I (1:1:0:0:1)** Optional one week (40 hours) supervised opportunity to observe and participate in an additional Fieldwork I experience in pediatric, psychosocial, or community-based settings. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN: No text is required for this course.

**AHOT 5140 Fieldwork I: Pediatric Process in Fieldwork (1:1:1:3:0)** This course focuses on the application of evaluation, intervention, and outcomes in a pediatric setting. Instruction and hands-on experiences provide opportunities for students to practice pediatric treatment skills as they develop and implement session plans for individual and/or groups of children. Student levels of learning in this course focus on application, analysis, synthesis, and evaluation. ISBN: 978-934825-68-6

**AHOT 5201 Fieldwork I: Adult Physical Dysfunction (2:2:0:0:2)** This course focuses on the application of evaluation, intervention (e.g. individual and group), and outcome processes utilized in a variety of settings that address adult physical dysfunction. Instruction and lab experiences provide opportunities for students to practice therapeutic skills as they develop and implement treatment plans. Student levels of learning in this course focus on the following: application, analysis, synthesis, and evaluation. ISBN: No text is required for this course.

**AHOT 5207 Psychosocial Interventions in Occupational Therapy (2:2:2:0:0)** This course introduces students to concepts and methods for providing individual and group-based intervention for persons with mental illness and persons experiencing psychosocial stressors. Topics will include, but are not limited, to: crisis intervention, therapeutic use of self, specific intervention strategies (i.e. stress management, relaxation, living skills training, etc.), group dynamics, types of groups, and group protocol development. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN 9780803617049


**AHOT 5215 Fieldwork I: Psychosocial Group Process (2:2:1:3:0)** This course focuses on the application of evaluation, intervention (e.g. individual and group), and outcome processes utilized in a variety of psychosocial practice settings. Instruction and lab experiences provide opportunities for students to practice therapeutic group skills as they develop and implement session plans for a group of individuals. Student levels of learning in this course
focus on the following: application, analysis, synthesis, and evaluation. ISBN: 9780803617049

AHOT 5220 Introduction to Occupational Therapy (2:2:2:0:0) Introduction to key terms and concepts used in occupational therapy practice. Course includes self-paced learning and testing for medical terminology. This course introduces students to OT professional practice, OT framework, and prepares them for learning theoretical foundations and performing activity analysis. Student levels of learning in this course focus on knowledge and comprehension. ISBN 978-1-55642-819-7

AHOT 5226 Professional Service Learning (2:2:2:0:0) Students will identify current policy issues in the various contexts in which occupational therapy services are provided and how to advocate for the profession. Students will be introduced to the grant writing process and benefits of securing a grant. This course will address ongoing professional development and responsibilities including the benefits of professional state and national organizations. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, synthesis, and evaluation. ISBN 978-1-55642-819-7

AHOT 5227 Introduction to Clinical Reasoning (2:2:2:0:0) This course focuses on the exploration of illness and/or disability experiences from the perspectives of the individual, healthcare professional, and society. Students will examine the influences of culture, poverty and ethics on disability through conditional and interactive reasoning using case studies and personal reflection. Student levels of learning in this course focus on knowledge/comprehension, and application. ISBN: No text is required for this course.

AHOT 5310 Theory and Foundations of Occupational Therapy (3:3:3:0:0) This course examines the philosophical, theoretical, and professional concepts that are foundational to occupational therapy. Students learn and apply several occupation-based theories, frames of references, and treatment approaches utilized in occupational therapy practice. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, synthesis, and evaluation. ISBN 9781556425738

AHOT 5311 Overview and Analysis of Occupational Therapy Assessment (3:3:2:0:3) This course provides the student with an overview and analysis of various assessment measures used in occupational therapy practice. Students learn components of critiquing tests and measures which include the type of assessment (i.e. norm-referenced, criterion referenced, etc.), format (i.e. interview, self-report, etc.) applicable population, psychometric properties (i.e. reliability, validity, etc.) and utility (i.e. eligibility, outcomes, etc.). Students also practice the administration of both standardized and non-standardized assessments as well as the interpretation and documentation of assessment results. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN 9781569002919
AHOT 5312 Occupational Therapy Practice: Assistive Technology (3:3:2:0:3)
This course includes assessments and interventions involving assistive technology. Topics will include, but are not limited to, assistive devices, seating systems, various switches, communication augmentative systems, environmental controls, home assessments, ergonomic assessments, and computer systems. Student levels of learning in this course focus on knowledge/comprehension, application, analysis, synthesis, and evaluation. ISBN 978-0-323-03907-9

AHOT 5313 Introduction to Evaluation and Intervention in Occupational Therapy (3:3:2:0:3)
Introduction to key OT practice skills including basic evaluation techniques, clinical documentation, clinical safety, physical handling techniques, interventions, and splinting. Student levels of learning in this course focus on knowledge/comprehension and application. ISBN 978-1-56900-257-5; ISBN 978-0-7817-6312-7

AHOT 5314 Health and Community Settings (3:3:2:0:3)
Reviews trends affecting healthcare system delivery and implications for community practice. An appreciation for difference in cultural and social systems is emphasized. Evaluation of community needs, alternative settings, practice expansion, and consultation skills are discussed. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN 978-0131708082

AHOT 5315 Organization and Management in Occupational Therapy (3:3:3:0:0)
Overview of management theories, budgeting, marketing, writing a business plan, strategic planning, performance appraisals, interviewing, billing and OT procedures, insurance and payment systems, and documentation issues. Prepares students in professional practice and theoretical background for management or supervision in the healthcare field. Student levels of learning in this course focus on the following: knowledge/comprehension; application; analysis; synthesis; and evaluation. ISBN: 978-1-4496-0471-4

AHOT 5316 Research Process in Occupational Therapy (3:3:0)
This course is the first of two research courses designed to prepare the student as both a consumer of research and a participant in the research process. Content includes an introduction to the research process, resources necessary for research in occupational therapy, evaluation and use of the professional literature relevant to occupational therapy practice, qualitative and quantitative design and analysis (including inferential statistics) methods. Student levels of learning in this course focus on knowledge/comprehension and application. ISBN:978-0-8036-1525-0

AHOT 5317 Hand and Upper Extremity Rehab (3:3:2:0:3)
This course integrates anatomy, kinesiology, assessment, and intervention principles for the treatment of upper extremity and hand conditions. Common injuries and conditions for the shoulder, elbow, forearm, wrist, and hand are covered. Advanced splinting skills are taught. Student levels of learning in this course

AHOT 5319 Occupational Performance Throughout the Lifespan (3:3:3:0:0) The focus of this course is on the skill progressions in typical and atypical development and how those sequences impact occupational performance across the lifespan. Students will be introduced to various occupational therapy practice settings that individuals may encounter throughout their lifespan when experiencing challenges in areas of occupation. Student levels of learning in this course focus on the following: knowledge/comprehension and application. ISBN: 978-0766842601; ISBN: 978-0-323-02565-8

AHOT 5320 Occupational Therapy Practicum (3:3:2:0:3) This course allows students to select an area of focus (adult rehab, pediatrics, mental health, adult neurology, or hand rehab) and spend lab hours in the specific area. Students will meet as a group in a seminar format to discuss their lab experiences. Students will prepare and present a professional inservice to peers and area clinicians. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, and synthesis/evaluation. ISBN: No text is required for this course.

AHOT 5327 Evidence for Research and Practice (3:3:3:0:0) This course focuses on the importance and use of Evidence Based Practice. Students will establish specific patient questions to guide their learning and will produce critically appraised topics (CAT's). Students will learn and practice the research skills of data collection, data analysis, report and dissemination of results and conclusions with in class research activities. Students will present their findings to the class. This course is writing intensive. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN:978-0-8036-1525-0

AHOT 5330 Conditions in Occupational Therapy: Part 1 (3:3:3:0:0) This course provides an overview of the etiology, epidemiology, signs and symptoms, associated conditions/complications, prognosis, and medical management of disorders and injuries in children and adults relevant to occupational therapy practice. This course focuses on conditions commonly encountered in pediatric and mental health practice settings. Students will examine anatomical and/or neurological structures/functions affected as a result of the condition or complications of the condition. Students also examine areas of occupation, occupational performance, and occupational roles potentially affected as a result of the condition or complications of the condition. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN :9780781763127, ISBN: 9780803617049, ISBN: 9780323055588

AHOT 5430 Conditions in Occupational Therapy: Part 2 (4:4:4:0:0) Second course in an overview of the etiology, signs and symptoms, associated conditions/complications, prognosis and medical management of disorders and injuries in children and adults relevant to occupational therapy practice. This
course focuses on conditions in several broad areas: neurological conditions, spinal cord injury, cancer, burns, orthopedic conditions, and amputations. Students will examine anatomical and/or neurological structures/functions affected as a result of the condition or complications of the condition. Students also examine areas of occupation, occupational performance, and occupational roles potentially affected as a result of the condition or complications of the condition. Students will apply documentation skills to begin differentiating anticipated therapy outcomes and long and short-term goals for a variety of conditions. Student levels of learning in this course focus on knowledge/comprehension, application, and analysis. ISBN: 978-0-7817-6312-7

**AHOT 5449 Occupational Assessment and Intervention in Children and Adolescents (4:4:3:0:3)** Focus is on how typical and atypical sequences are used in pediatric occupational therapy assessment and treatment. Lab experiences involve the observation and assessment of children. Clinical reasoning and occupational therapy processes focus on documentation of assessment findings, goal development, and determination of therapy interventions based on assessment findings. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, and synthesis/evaluation. ISBN: 978-0-323-05658-8

**AHOT 5450 Occupational Assessment and Intervention in Adults and Older Adults (4:4:3:0:3)** This course builds on student knowledge in earlier courses, applying specific OT techniques to diagnostic areas and individual conditions found in adults and older adults. Instruction and laboratory practice incorporates active learning to cultivate critical thinking skills needed in practice. Through case mapping and treatment plans students will utilize clinical reasoning skills, occupational therapy processes, and treatment planning required for fieldwork. Student levels of learning in this course focus on the following: knowledge/comprehension, application, analysis, and synthesis/evaluation. ISBN: 978-0-7817-6312-7; ISBN: 978-1-55642-738-1

**AHOT 5500 Human Anatomy (5:5:3:0:6)** Integrated study of gross human anatomy embodying gross morphology and coordinating with developmental and histological aspects of the body. Included is regional dissection with emphasis on the musculoskeletal, nervous, circulatory and respiratory. Lays a scientific foundation for other courses in the curriculum. Human cadaver dissection is the primary lab activity. Student levels of learning in this course focus on knowledge/comprehension. ISBN: 978-0-7817-7525-0; ISBN: 978-1-60406-062-1

**AHOT 5931 Fieldwork II: 1 (9:9:0:0:9)** Prerequisites: Successful completion of all previous professional and fieldwork courses and approval of Program Director. Full-time, supervised clinical experience for 12 weeks (480 hours). Development of knowledge and skills needed for entry-level practice. Use of the occupational therapy process and clinical reasoning skills, working with individuals and groups. Introduction to clinical administration, supervision, quality assurance, consultation, and research. Student levels of learning in this
course focus on knowledge/comprehension, application, analysis, and synthesis/evaluation. ISBN: No text is required for this course.

**AHOT 5932 Fieldwork II: 2 (9:9:0:0:9)** Prerequisites: Successful completion of all previous professional and fieldwork courses and approval of Program Director. Full-time, supervised clinical experience for 12 weeks (480 hours). Development of knowledge and skills needed for entry-level practice. Use of the occupational therapy process and clinical reasoning skills, working with individuals and groups. Introduction to clinical administration, supervision, quality assurance, consultation, and research. Student levels of learning in this course focus on knowledge/comprehension, application, analysis, and synthesis/evaluation. ISBN: No text is required for this course.
Doctor of Physical Therapy

The PT Profession

The profession of physical therapy developed as a result of societal needs during the world wars and the poliomyelitis epidemics in the beginning of the 20th century. Physical therapists practice in a variety of settings with unprecedented levels of professional responsibility. Physical therapists practice in outpatient clinics, hospitals, rehabilitation facilities, long-term care facilities, patients’ homes, schools, industrial settings, and fitness/wellness centers. Physical therapists are an integral part of the healthcare team managing a wide variety of patients across the lifespan in many different settings.

Physical therapy is a health profession that focuses on examining and evaluating patients in order to determine a diagnosis, prognosis, and intervention. Physical therapists help alleviate impairments and functional limitations to restore a quality of life and participation in society. Restoration of function is accomplished through designing and implementing evidence-based patient-specific therapeutic interventions for patients with acute and chronic injury, disease, and physical disability. Physical therapists collaborate with a variety of other professionals through consultation, education, and research to provide patient/client services. Physical therapists also act as consultants for businesses, public and private organizations, and to their community to promote health, wellness/fitness, and illness/injury prevention. Physical therapist practice relies on the application of a well-developed body of scientific and clinical knowledge from the basic, behavioral, clinical and social sciences. In addition, physical therapists are investigators in applied clinical research, and serve as both academic and clinical faculty members at universities.

After graduating from an accredited physical therapy professional education program, physical therapist candidates must pass a national licensure examination in order to practice physical therapy. Additional licensure requirements for physical therapists vary from state to state, according to practice acts and state regulations that govern the practice of physical therapy.

Program Description

The Texas Tech University Health Sciences Center’s (TTUHSC) Doctor Physical Therapy (D.P.T.) program is located within the School of Allied Health Sciences and the Department of Rehabilitation Sciences. The Doctor of Physical Therapy Program at the Texas Tech University Health Sciences Center is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) through December 31, 2018, 1111 North Fairfax Street, Alexandria, Virginia 22314: telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org.
Increase in professional responsibility of the physical therapist created a need for continued development of physical therapy professional educational programs across the United States. This development led to the transition of the physical therapy programs from bachelor’s degree programs to master’s degree programs and finally to doctoral degree programs. The TTUHSC School of Allied Health Sciences obtained approval to award the Doctor of Physical Therapy (D.P.T.) degree from the Texas Higher Education Coordinating Board in July of 2007.

The mission of the Doctor of Physical Therapy (D.P.T.) program at Texas Tech University Health Sciences Center (TTUHSC) is to educate students to be autonomous, evidence-based practitioners who improve the health of people through the application of their clinical skills, collaboration with other health care professionals, and commitment to life-long learning and community service.

The three-year D.P.T. program has two components: academic and clinical. The academic component, via classroom and laboratory experiences, includes applied foundational sciences, behavioral sciences, and clinical sciences. The clinical education component consists of 36 weeks of clinical internship under the supervision of a licensed physical therapist. Clinical internships focus on inpatient/general, musculoskeletal, and neurologic skills. Students also participate in a clinical internship designed to meet individual student interests, which may include pediatrics, sports medicine, women's health, etc. Sites for clinical experiences are located primarily throughout Texas and the Southwestern US, but may be located anywhere in the United States mainland. Students should anticipate additional costs during their clinical internships. Students must pass a Criminal Background Check in order to participate in clinical internships. Many clinical education sites also require a drug screening prior to beginning the internship.

The TTUHSC D.P.T. program is one program located on three campuses: Amarillo, Lubbock, and Odessa. Class sizes at all campuses are monitored to ensure optimal student/instructor ratios and to maximize comprehensive instructional and laboratory experiences. Faculty and students on all campuses communicate with each other in person, via a synchronous interactive multimedia environment, by e-mail, and by telephone. Students entering the program should possess basic computer skills, including the use of e-mail, accessing the internet, and the use of word processing programs. Computer labs are located on each campus. A laptop computer is required.

**Essential Functions**

A student admitted into the D.P.T. program must meet essential functions that are necessary to be able to obtain employment in the physical therapy field. These are established minimum physical and mental guidelines necessary for the D.P.T. program. Prior to matriculation, all students must submit verification of their ability to perform at or above the minimum physical and mental guidelines established by the Department of Rehabilitation Sciences (DRS)
Prospective students may obtain a written copy of the essential functions for the D.P.T. program from the Office of Admissions and Student Affairs by calling (806) 743-3220.

Current students may find a list of the essential functions for the D.P.T. program in the DRS Student Handbook (http://www.ttuhsc.edu/sah/current/handbooks.aspx).

**Admission to the Program**

**The Application Process**

Applications for admissions to the D.P.T. program are considered on a rolling basis with one application deadline October 1st each year. Individual applications are reviewed and interviews are scheduled for competitive applicants once all materials have been received. It is in the applicant’s best interest to complete their application, including submission of transcripts, GRE scores and clinical experience documentation forms, as early as possible. Applicants who have more than 16 credit hours of Science prerequisites outstanding at the time of application will not be considered. Applicants who have completed all or most of their prerequisite courses at the time of application may be at an advantage during the admission process. Two letters of recommendation are required as part of the application, and should be completed by the following: one from a physical therapist who has observed the applicant during any related volunteer or paid work, and the other from a previous or present instructor, academic counselor, previous or present employers.

Applicants who meet the above listed requirements and are deemed competitive candidates for admission will be invited to TTUHSC for interviews. Applicants should understand that fulfillment of the basic requirements does not guarantee admission. The admissions committee selects the most qualified applicants from the pool of applicants interviewed considering: cumulative GPA, prerequisite science GPA, GRE scores, interview scores, volunteer/work experience in physical therapy, recommendation letters, student essay, and other factors.

Applicants must have completed all prerequisites prior to matriculation into the D.P.T. program. Applicants to the physical therapy program should understand that students admitted to the program are assigned to a specific campus (Lubbock, Amarillo, or Odessa), and requests for campus transfers are not typically granted. Students who are unable or unwilling to accept assignment to a specific campus should not accept admission to the D.P.T. program. All students attend classes during the first summer session on the Lubbock campus.

All applications are made online at the following web address: www.ttuhsc.edu/sah. Additional application materials should be sent to the Texas Tech University Health Sciences Center, Office of the Registrar, 3601 4th Street, Stop 8310, Lubbock, Texas 79430.
Laptop Computer Requirement

The D.P.T. Program has the requirement that all incoming students must have a laptop computer. Below is a list of the minimum recommendations for your laptop computer hardware.

General Recommendations for Laptop Computers

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor:</td>
<td>Intel processor, or AMD Processor 2.0 GHz or greater</td>
</tr>
<tr>
<td>Operating System:</td>
<td>Windows XP or later; Mac OS x 10.5 or higher</td>
</tr>
<tr>
<td>Memory (RAM):</td>
<td>2 GB RAM or greater</td>
</tr>
<tr>
<td>Storage:</td>
<td>80 GB SATA hard drive or greater</td>
</tr>
<tr>
<td>Video:</td>
<td>128 MB video card or integrated graphics</td>
</tr>
<tr>
<td>Network:</td>
<td>Built in LAN and 802.11 Wi-Fi</td>
</tr>
<tr>
<td>Optical Drive:</td>
<td>DVD+/- RW optical drive</td>
</tr>
</tbody>
</table>

Texas Tech University Health Sciences Center students have access to several free software downloads. One of the most useful is Microsoft Office, therefore we recommend that students not purchase Microsoft Office prior to arriving on the TTUHSC campus. Additional information regarding these free software downloads will be provided during orientation.

Prerequisite Courses

The professional phase of the D.P.T. program begins in late May each year. A bachelor’s degree is required for admission into the D.P.T. program. In addition, specific D.P.T. program prerequisites are listed below and may be completed at any accredited college or university.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology (for science majors, lab required)</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry (for science majors, lab required)</td>
<td>8</td>
</tr>
<tr>
<td>General Physics (for science majors, lab required)</td>
<td>8</td>
</tr>
<tr>
<td>Anatomy and Physiology (for science majors, lab required)</td>
<td>8</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total Hours = 38*

*Recommended courses: Additional English, technical writing, speech, exercise physiology, kinesiology, biomechanics, motor control, developmental psychology.*
**TEXAS TECH UNIVERSITY EQUIVALENT COURSES**

To qualify for admission, applicants must have completed or planned to have completed all courses from an accredited two-year college, college, or university in the United States prior to enrollment. The courses listed below are the Texas Tech University equivalents of the prerequisite courses required to apply for admission into the professional phase of the TTUHSC Physical Therapy program.

### Biological Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1403</td>
<td>Biology I w/ lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1404</td>
<td>Biology II w/ lab</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2403</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 2404</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>*ZOOL 3405</td>
<td>Vertebrate Structure &amp; Development</td>
<td>4</td>
</tr>
<tr>
<td>*ZOOL 4409</td>
<td>Comparative Animal Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Hours = 16**

* Upper division (Junior or Senior level course noted by 3000 or 4000 level course number) courses in anatomy and physiology will strengthen an applicant’s foundational knowledge in preparation for the D.P.T. program and are recommended in addition to the required lower division course work in anatomy and physiology.

### Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1307</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1107</td>
<td>(Lab)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1308</td>
<td>Principles of Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1108</td>
<td>(Lab)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Hours = 8**

### Physics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1403</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1103</td>
<td>(Lab)</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1404</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1104</td>
<td>(Lab)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Hours = 8**

### Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 1300</td>
<td>General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Hours = 3**
Statistics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2300 or PSY 3403</td>
<td>Statistical Methods 3</td>
</tr>
</tbody>
</table>

**Required Hours = 3**

*Recommended courses include additional technical writing, speech, exercise physiology, kinesiology, biomechanics, and developmental psychology.*

### GPA Requirements

A minimum of a 3.0 cumulative and prerequisite science grade point averages are required for admission. Competitive GPA's are considered in light of the strength of the applicant pool during the year of application.

### GRE Requirement

Competitive GRE scores are required for admission, considering verbal, quantitative, and analytical subscale scores. Competitive GRE scores are dependant upon the strength of the application pool during the year of admission.

### Experience

Applicants are expected to have some experience of the profession prior to application to the program. This experience may be acquired in several ways, including volunteer work, paid employment, or observations in clinical settings. Applicants must have completed at least 100 clock hours of experience in a physical therapy setting prior to May 1 of the year of matriculation. Applicants are encouraged to gain as much experience in as many different settings (inpatient, outpatient, rehab, acute care, aquatics, wound care, etc.) as possible. Greater clock hours of experience in a variety of settings will strengthen an application.

### Physical Therapy Curriculum

The following courses are offered once each year during the semester listed and must be taken in sequence. Consequently, each course must be successfully completed before the student is allowed to progress in the curriculum.

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Summer Semester Course*</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8100</td>
<td>Professional Development 1</td>
</tr>
<tr>
<td>AHPT 8203</td>
<td>Functional Anatomy 2</td>
</tr>
<tr>
<td>AHPT 8500</td>
<td>Gross Anatomy 5</td>
</tr>
</tbody>
</table>

**Total Hours = 8**

*All students attend the first summer session at the Lubbock campus.*
<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8201  History and Systems Screening</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8205  Evidence - Based Practice I</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8209  Exercise Physiology</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8301  Foundational Skills and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8303  Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8407  Pathophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours = 16

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8212  Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8216  Physical Agents and Modalities</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8310  Therapeutic Exercise</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8314  General Practice Patterns</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8318  Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8414  Cardiopulmonary Practice Patterns</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours = 17

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester Course</td>
</tr>
<tr>
<td>AHPT 8120  Communication and Clinical Education</td>
</tr>
<tr>
<td>AHPT 8123  Clinical Reasoning 1</td>
</tr>
<tr>
<td>AHPT 8228  Motor Behavior</td>
</tr>
<tr>
<td>AHPT 8222  Clinical Internship 1 (4 weeks)</td>
</tr>
</tbody>
</table>

Total Hours = 6

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8231  Diagnostic Imaging</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8329  Human Development</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8425  Musculoskeletal Practice Patterns I</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8521  Neuromuscular Practice Patterns</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Hours = 14

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8114  Evidence - Based Practice II</td>
<td>1</td>
</tr>
<tr>
<td>AHPT 8226  Orthotics and Prosthetics</td>
<td>2</td>
</tr>
<tr>
<td>AHPT 8327  Health Care and Business Management</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 8422  Pediatric Practice Patterns</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8426  Musculoskeletal Practice Patterns II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Hours = 14

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester Course</td>
</tr>
<tr>
<td>AHPT 8142  Assistive and Adaptive Technology</td>
</tr>
<tr>
<td>AHPT 8224  Clinical Reasoning 2</td>
</tr>
</tbody>
</table>
Department of Rehabilitation Sciences

AHPT 8240  Differential Diagnosis  2
AHPT 8246  Advanced Topics in Physical Therapy  2

**Total Hours = 7**

<table>
<thead>
<tr>
<th>Fall Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8453  Clinical Internship 2 (8 weeks)</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8455  Clinical Internship 3 (8 weeks)</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8144  Professional Project</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours = 9**

<table>
<thead>
<tr>
<th>Spring Semester Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 8456  Clinical Internship 4 (8 weeks)</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8458  Clinical Internship 5 (8 weeks)</td>
<td>4</td>
</tr>
<tr>
<td>AHPT 8160  Graduate Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours = 9**

**Total Curriculum Hours=100**

During professional studies, students are required to adhere to all program policies and academic and behavioral guidelines as stated in the TTUHSC Student Affairs Handbook- Code of Professional and Academic Conduct and the DRS Student Handbook. Expenses incurred on/for clinical rotations (such as, but not limited to: housing, transportation, immunizations, drug screening and criminal background check) are the responsibility of the student.

**Course Descriptions**

**AHPT 8100 Professional Development (1:1:1:0:0)** This course will focus on the principles that govern ethical decisions, profession roles, and professional behaviors as they specifically relate to the practice of Physical Therapy. Additional emphasis will focus on the development of skills related to the following: 1) the effective management of time and stress, 2) effective study and test taking strategies, and 3) conflict management skills. This course will incorporate discussion- based didactic lecture, individual and group assignments and online instruction. ISBN: 0-8036-2367-4; ISBN: 13: 978-0-8036-2367-5

**AHPT 8114 Evidence - Based Practice II (1:1:1:0:0)** This course teaches students how to critically read the scientific literature in preparation for becoming an evidence-based practitioner. The focus of the course will be on becoming a consumer of scientific literature. ISBN: 13: 97807637344435

**AHPT 8120 Communication and Clinical Education (1:1:1:0:0)** This course is designed to improve the students' communication through written, verbal and nonverbal forms, enhance professional behaviors and address issues concerning clinical education. Topics discussed are related to documentation styles, teaching and learning, components of respectful interaction with cultural and generational differences, difficult patients and various age groups. Professional
behaviors as they relate to the generic abilities and clinical education will also be addressed, along with using the PT MACS on clinical internships. ISBN: 978-1-4160-2244-2; ISBN: 978-1-4160-2244-2

AHPT 8123 Clinical Reasoning 1 (1:1:1:0:3) Clinical Reasoning 1 is designed to explore the nature of clinical reasoning in the profession of Physical Therapy and to examine strategies for assisting learners to develop their reasoning expertise. This course focuses on clinical problem solving used in minimally to moderately complex case studies to include the following practice patterns across the life span: general, cardiopulmonary, musculoskeletal, and neuromuscular. Knowledge and skills from the curriculum taught to this point will be incorporated. The laboratory course places less emphasis on didactic learning and more toward case competence, problem solving and patient care management ability. Also incorporated are quizzes with licensure type test items covering material presented in the curriculum thus far and that are representative of the categories in the content outline of the licensure exam. ISBN: 978-0-8036-1247-1; ISBN: 978-1-4160-4899-2


AHPT 8144 Professional Project (1:1:1:0:0) Prerequisites: Research Design and Statistics; Critique and Interpretation of Research. This course is the culmination of the research courses in which students will perform a scholarly literature review of a Physical Therapy-related topic. This course will provide the instruction to perform this task. ISBN: 978-0-7637-3443-5

AHPT 8160 Graduate Seminar (1:1:1:0:0) This integrative capstone seminar course format designed to prepare graduates for the licensure examination and entering the work force. Learning method includes online supplementary review and seminar format. ISBN: 978-0984339334

AHPT 8201 History & Systems Screening (2:2:1:0:3) This course will present an important responsibility of Physical Therapists, specifically, the recognition of co-morbid medical conditions. Accurate diagnosis depends on three major clinical indices: the subjective information obtained from the patient, the signs identified on physical examination, and the results obtained from diagnostic tests (imaging and laboratory tests). This course examines the relative value and importance of the subjective data obtained from the medical history as related to physical examination and imaging/laboratory investigations in the establishment of a diagnosis. Included is information regarding the knowledge and processing skills necessary to enhance Physical Therapists’ medical screening and clinical judgments regarding when to treat and when to refer their patients. Combined with students’ existing knowledge and skills, this medical screening course will provide a more comprehensive evaluation scheme that will facilitate safe, effective and efficient patient management within the context of

**AHPT 8203 Functional Anatomy (2:2:1:0:3)** This course focuses on the study of anatomy with respect to function. Emphasis will be placed on joint orientation and description of normal osteokinematic and arthrokinematic components of movement of the upper extremity, lower extremity and spine. Laboratory experiences focus on surface anatomy palpation and visualization of kinematic motion. ISBN: 978-0-323-03989-5

**AHPT 8205 Evidence - Based Practice I (2:2:2:0:0)** This course provides the student with an introduction to Evidence - Based Practice, including statistics and research design. Students will obtain the requisite knowledge about the research process and experimental designs commonly used in pre-clinical and clinical studies. The course will present the fundamental concepts of descriptive statistics and statistical inference. ISBN: 978-0763734435

**AHPT 8209 Exercise Physiology (2:2:2:0:0)** This course is designed to provide students an understanding of basic exercise physiology with a focus on the acute physiological responses and adaptive changes to exercise across systems, between genders, and over the lifespan. Students will develop their understanding of the body’s ability to perform physical work, adapt to stressful situations, and improve its physiological capacities for health and exercise performance. ISBN: 978-0-7817-9781-8; ISBN: 978-07-7817-6903-7

**AHPT 8212 Pharmacology (2:2:2:0:0)** This course provides a survey of pharmacology and covers key concepts related to the cellular actions, therapeutic uses, and side effects of major drug classes used in humans. Basic principles of pharmacology are addressed with focus on the mechanisms of action of classes of drugs and effects of specific drugs on the nervous, musculoskeletal, cardiorespiratory, immune, endocrine, gastrointestinal, and other body systems. Basic principles of pharmacology and their relation with pathophysiology are addressed with focus on and relevant applications to the practice of Physical Therapy. ISBN: 978-0-8036-1377-5

**AHPT 8216 Physical Agents and Modalities (2:2:1:0:3)** This course presents material that allows development of clinical skills fundamental to patient management for the Physical Therapist. Course content includes theory, scientific principles, and clinical applications associated with a Physical Therapy evaluation, assessment, and intervention with physical agents and modalities. This course emphasizes instruction in physical agents and modalities available to the practicing Physical Therapist. These will include: electrophysiology, thermal agents, laser, application of traction, electromyographic (EMG) biofeedback, biomedical compression, alternative and palliative care, soft tissue modalities, and the practical usage of each agent or modality. Both classroom and laboratory learning will be included. ISBN: 978-1-4160-3257-1
AHPT 8222 Clinical Internship 1 (2:2:0:0:6) Four weeks of full-time clinical experience (approximately 160 hours) in a Physical Therapy practice setting. During Clinical Internship 1, the student has the opportunity to integrate patient evaluation and management skills in a clinical setting to develop entry-level competencies for entry-level Physical Therapists as defined in the Physical Therapist Manual for the Assessment of Clinical Skills (PT MACS). No textbook is required.

AHPT 8224 Clinical Reasoning 2 (2:2:1:0:3) Clinical Reasoning 2 is designed to explore the nature of clinical reasoning in the profession of Physical Therapy and examine strategies for assisting learners to develop their reasoning expertise. This course focuses on clinical problem solving used in moderate to complex case studies to including the following practice patterns across the life span: general, cardiopulmonary, musculoskeletal, and neuromuscular to include pediatrics. Knowledge and skills from the curriculum taught to this point will be incorporated. The laboratory course places less emphasis on didactic learning and more toward case competence, problem solving and patient care management ability. Also incorporated are quizzes with licensure type test items covering material presented in the curriculum thus far and that are representative of the categories in the content outline of the licensure exam. ISBN: 0-7216-0619-9

AHPT 8226 Orthotics and Prosthetics (2:2:2:0:0) This course is designed to provide the Physical Therapy student knowledge of orthotic and prosthetic prescription, parts components, and Physical Therapy application. This course includes exercise prescription for amputees, evaluative procedures for orthotics and prosthetics, gait analysis, device checkouts and case studies. Course will also involve interactions with prosthetists and orthotists and prosthetic and orthotic device users. ISBN: 978-07-7506-7479-9

AHPT 8228 Motor Behavior (2:2:2:0:0) The course focuses on the principles of the current theories of motor control, motor learning, and recovery of function. Application to neurologic Physical Therapist practice using a theoretical framework. The focus is on normal and pathological postural control, mobility, and upper extremity function. ISBN: 978-0-6083-1018-0

AHPT 8231 Diagnostic Imaging (2:2:2:0:0) This course will cover the basic science behind multiple imaging modalities (x-rays, magnetic resonance imaging (MRI), computed tomography (CT), doppler, arthrograms, diagnostic ultrasound (DUS), etc., the benefits of each imaging method, as well as how to refer for imaging services or consultation. Anatomy of bone, joint, cartilage, soft tissue, central nervous system (CNS) structure, and gastrointestinal and genitourinary systems for the appropriate imaging devices will be discussed by joint/region along with clinical reasoning algorithms for assistance with imaging selection and interpretation. Special features and views will be discussed as applicable for each imaging device. Vascular modalities and special bone scans will also be discussed. ISBN: 803619464
**AHPT 8240 Differential Diagnosis (2:2:1:0:3)** This course provides education and training in differential diagnosis of conditions that may require referral to or examination by a physician. Using basic to complex case studies from a variety of practice patterns, the course will educate the student about proper screening for medical disease to make an informed diagnosis. Students will be required to draw upon their comprehensive knowledge of all body systems to distinguish musculoskeletal and neuromuscular pathology from systemic conditions involving medical pathology. This course will utilize complex case studies in the laboratory setting and formal student presentations in the lecture setting to enhance student learning. ISBN: 0-7216-0619-9

**AHPT 8246 Advance Topics in Physical Therapy (2:2:2:0:0)** This course includes selected advanced topics interest to the professions of physical therapy. Topics may include, but are not limited to: health and wellness promotion, women’s physical therapy, ergonomics, alternative therapies, and biopsychosocial pain patterns. Additional topics of interest may be presented.


**AHPT 8303 Biomechanics (3:3:3:0:0)** This course provides students with a fundamental understanding of the biomechanics of the musculoskeletal system and integrated human movement with clinically relevant applications. ISBN: 0-683-30247-7; ISBN: 0-8151-6349-5

**AHPT 8310 Therapeutic Exercise (3:3:2:0:3)** This course will include lecture and lab components exploring the principles guiding therapeutic exercise prescription by the Physical Therapist. The major therapeutic exercise domains that will be explored include flexibility training, resistance training, cardio-respiratory/aerobic training, relaxation, aquatic exercise, proprioceptive neuromuscular facilitation, balance, coordination, stabilization training. The course will place special emphasis on health and wellness of the general population and exercise principles related to women’s health. ISBN: 9780803615847

**AHPT 8314 General Practice Patterns (3:3:2:0:3)** This course presents material essential to a Physical Therapist’s role in patient/client management in diverse practice settings. Using didactic lecture and clinical laboratory practice, material associated with the five elements of the patient/client management by the Physical Therapist are acquired. These elements include the examination, evaluation of examination results, diagnosis, establishing a prognosis, and instituting appropriate interventions. This course will discuss the assessment process and interventions involved with the care of the patient/client

AHPT 8318 Neuroscience (3:3:3:0:0) This course provides students with a fundamental understanding of the functions and pathologies of the central nervous system (CNS) as a basic science course in the neurorehabilitation curriculum. The emphasis will be on “systems-level neuroanatomy,” i.e., functional neuroanatomy (e.g., motor and sensory pathways) and regional neuroanatomy (e.g., organization of spinal cord, brainstem, cerebral cortex, etc.). In addition, information processing by neurons will be addressed by coverage of axon physiology, synaptic neurotransmission and plasticity. The course will first survey the anatomical organization of the CNS, then sensory and motor functions of the CNS, and finish with a description of a number of neurological disorders that have clinical relevance to Physical Therapists. ISBN: 978-0-13-302469-2; ISBN: 978-1-60547-653-7

AHPT 8327 Healthcare & Business Management (3:3:3:0:0) The course provides an understanding of basic organizational, fiscal, payer, and accessibility issues pertinent to the administration and management of rehabilitative services as well as initial business management perspectives needed by the entry-level Physical Therapist, concentrating on supervision, staffing, planning, and administration. ISBN: 13:978-0-7817-8132-9

AHPT 8329 Human Development (3:3:3:0:0) Study of human growth and development issues and theories relevant to the practice of Physical Therapy. The course focuses on typical development from conception to senescence within the physical, cognitive, social, and emotional domains. ISBN: 978-0-76684-260-1

AHPT 8407 Pathophysiology (4:4:4:0:0) This course provides a survey of clinical pathophysiology and covers key concepts related to the function and biological control of cells, tissues, organs, and body system as well as structural and functional changes in cells, tissues and organs that underlie human disease. Basic principles of pathophysiology are addressed with focus on the cause, development, progress, and consequences of diseases related to the nervous, musculoskeletal, cardiorespiratory, immune, endocrine, gastrointestinal and other body systems. ISBN: 978-1416031185; ISBN: 9781416054511

AHPT 8414 Cardiopulmonary Practice Pattern (4:4:3:0:3) This course is designed to focus on the primary and secondary cardiopulmonary impairments that limit therapeutic and patient outcomes in various settings, which include intensive care units, long term care, outpatients, school setting and home care. The physiological and evidence basis of intervention will primarily focus on practical aspects relating to all patients and client. Current medical diagnosis and treatment of common cardiac and pulmonary disorders seen by Physical Therapy practice will be incorporated in this course. The Guide to Physical Therapist Practice will be used to discuss the process of selecting appropriate tests and measures, establishing a diagnosis, prognosis and plan of care, and selecting

AHPT 8422 Pediatric Practice Patterns (4:4:3:0:3) This course focuses on Physical Therapy examination, evaluation, interventions, and expected outcomes for pediatric patients with musculoskeletal, neuromuscular, cardiopulmonary, or general medical impairments and functional limitations. The course includes discussion of Physical Therapy practice in specialized setting such as neonatal intensive care, early childhood intervention programs, and public schools. ISBN: 978-1-4160-6626-2


AHPT 8426 Musculoskeletal Practice Patterns 2 (4:4:3:0:3) An in-depth study of the principles of orthopedic examination, evaluation and intervention aimed at incorporating a detailed working knowledge of pathologic anatomy as it relates to dysfunction. This course will teach the basis for orthopedic intervention utilizing modalities, joint mobilization/manipulation, therapeutic exercise, functional, chronic pain, and post surgical rehabilitation principles. ISBN: 978-0-07-174404-1; ISBN: 978-0-13-254478-8

AHPT 8453 Clinical Internship 2 (4:4:0:0:12) Eight weeks of full-time clinical experience (approximately 320 hours) in a predetermined specific PT clinical setting (acute care, musculoskeletal, neuromuscular, or elective). The student has the opportunity to integrate patient management and evaluation skills and to develop entry-level and advanced competencies for entry-level Physical Therapists as defined in the Physical Therapist Manual for the Assessment of Clinical Skills (PT MACS). No textbook is required.

AHPT 8455 Clinical Internship 3 (4:4:0:0:12) Eight weeks of full-time clinical experience (approximately 320 hours) in a predetermined specific PT clinical setting (acute care, musculoskeletal, neuromuscular, or elective). The student has the opportunity to integrate patient management and evaluation skills and to develop entry-level and advanced competencies for entry-level Physical Therapists as defined in the Physical Therapist Manual for the Assessment of Clinical Skills (PT MACS). No textbook is required.

AHPT 8456 Clinical Internship 4 (4:4:0:0:12) Eight weeks of full-time clinical experience (approximately 320 hours) in a predetermined specific PT clinical setting (acute care, musculoskeletal, neuromuscular, or elective). The student has the opportunity to integrate patient management and evaluation skills and to develop entry-level and advanced competencies for entry-
level Physical Therapists as defined in the Physical Therapist Manual for the Assessment of Clinical Skills (PT MACS). No textbook is required.

**AHPT 8458 Clinical Internship 5 (4:4:0:0:12)** Eight weeks of full-time clinical experience (approximately 320 hours) in a predetermined specific PT clinical setting (acute care, musculoskeletal, neuromuscular, or elective). The student has the opportunity to integrate patient management and evaluation skills and to develop entry-level and advanced competencies for entry-level Physical Therapists as defined in the Physical Therapist Manual for the Assessment of Clinical Skills (PT MACS). No textbook is required.


**AHPT 8521 Neuromuscular Practice Patterns (5:5:4:0:3)** This course examines the pathology, medical diagnosis process, and medical and surgical interventions of neuromuscular conditions in adults that are commonly seen by Physical Therapists. It focuses on Physical Therapy examination, evaluation, and intervention for adult clients with neurological disorders based on current research, evidence, and practice guidelines. ISBN: 978-0-8036-0257-1
Transitional Doctor of Physical Therapy Pathway

Program Description
The Transitional Doctor of Physical Therapy is a clinical doctoral degree designed for licensed Physical Therapists who wish to advance their knowledge, skills, and behaviors to a level consistent with the current professional (entry-level) Doctor of Physical Therapy (DPT) standards. It is designed for experienced physical therapists who wish to augment their current knowledge and skills to position themselves more strongly in the current health care environment. The Transitional DPT differs from an advanced post-professional degree in that it does not reflect the acquisition of advanced or specialized clinical skills, but rather it reflects the augmentation in the physical therapy professional body of knowledge and practice over the last five or more years.

Admission to the Program
Eligibility requirements for admission to the Transitional DPT program are as follows:

- Either (i) a Bachelor’s or Master’s professional degree in physical therapy from an accredited physical therapy program within the United States.

- Licensed to practice physical therapy within the United States, with documentation submitted with application.

- All official college transcripts: undergraduate, physical therapy program, graduate, and any other relevant university course work.

- Acceptable grade point average in university course work.

- At least one supporting letter of reference from a current / former employer or a professional colleague.

- Résumé listing professional experience.

- Essay about personal professional goals in 500 words or less.
The Application Process

Applications are accepted for admission for the Fall, Spring and Summer semesters. Application deadlines are August 1 for Fall, December 1 for Spring, and May 1 for Summer.

Applicants must complete and submit the application for admission online at: www.ttuhsc.edu/merlin.

Additional application materials, such as letters of reference, university transcripts and documentation of possession of a physical therapy license in the United States, should be sent to the Texas Tech University Health Sciences Center, Office of the Registrar, 3601 4th Street, Stop 8310, Lubbock, Texas 79430. Applicants should understand that fulfillment of the basic requirements does not guarantee admission.

The Commission on Accreditation in Physical Therapy Education (CAPTE) does not offer accreditation for post-professional program in physical therapy, such as the transitional-DPT.

The Professional Curriculum

The Transitional DPT program curriculum requires the completion of 27 semester credit hours. All students are required to enroll in all core courses (21 hours) and two elective courses (6 hours). All courses are taught online. Most courses will be taught at least once per year. Students are required to successfully complete at least two courses within each academic year. While each student’s curriculum is flexible, it is expected that course work requirements for the Transitional DPT degree be completed within five years. Each student will design a degree plan on admission to the program in conjunction with the Program Director.

Course Descriptions

AHPT 8361 Professional Development (3:3:3:0:0) This course focuses on the professional role and responsibility of the physical therapist at a doctoral level. Students will analyze professional core values and their own professional development as a DPT. There will be a focus on the application of ethical analysis and decision-making as physical therapists become an entry-point into healthcare for patients and clients. No required book, journal articles will be used.

AHPT 8362 Health and Wellness Promotion (3:3:3:0:0) This course focuses on the theories and practice of health promotion and wellness and is designed, through literature and program review, to assist students in acquiring the knowledge, skills and tools they need to successfully integrate health promotion into clinical physical therapy practice. Aspects of community health promotion, health promotion in PT practice; the state of the nation’s health; behavior change and counseling principles and techniques; nutrition; physical activity; disease prevention; and risk factor reduction will also be addressed. A major focus is on
learning to use behavior modification techniques to help motivate and support lifestyle changes, improve health, and prevent disease. As part of this course, students will research and develop a health promotion intervention that can be delivered in the PT practice setting. No required book, journal articles will be used.

**AHPT 8363 Screening and Differential Diagnosis (3:3:3:0:0)** This course focuses on systems review and differential diagnosis. Students will conduct systems review to screen the status of the musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary systems. Students will apply theories and concepts of clinical decision-making and diagnosis and will identify patient conditions which require a referral to a different healthcare practitioner. ISBN: 978-0-7216-0619-4

**AHPT 8364 Diagnostic Imaging (3:3:3:0:0)** This course focuses on the indications and implications of commonly used diagnostic imaging tests (e.g., X-rays, MRI, ultrasonography, CT Scan, echocardiography, fluoroscopy, PET scan, discography, etc.) as they pertain to physical therapy patient management. ISBN: 978-0-80361-9463

**AHPT 8365 Evidence-Based Practice (3:3:3:0:0)** This course focuses on evidence-based clinical decision making, including locating and accessing evidence and evaluating levels of evidence. Students will apply evidence to clinical practice by integrating evidence, patient, values, and clinical experience. Students will apply key measurement properties and strategies to assess and select between tests for clinical practice. Students will develop critically-appraised topics which can be applied to their area of practice. ISBN: 978-0-7637-7765-4

**AHPT 8366 Clinical Application of Pharmacology (3:3:3:0:0)** This course provides a survey of pharmacology and covers key concepts related to the cellular actions, therapeutic uses, and side effects of major drug classes used in the management of disease. Basic principles of pharmacology are addressed with focus on the mechanisms of action of classes of drugs and effects of specific drugs on the major systems of the body. The major focus of this course is on the relevant applications of pharmacotherapy to PT clinical practice and patient management. ISBN 13: 978-0-8036-1277-5

**AHPT 8367 Business Concepts for Physical Therapists (3:3:3:0:0)** This course focuses on current issues of physical therapy administration. Topics will include human resources, strategic planning, marketing, legislation, reimbursement models, ethical issues, and advocacy to improve healthcare policy. ISBN: 978-0-7917-8132-9

**Elective Courses (Students choose 2):**

**AHPT 8371 Musculoskeletal Physical Therapy Practice (3:3:3:0:0)** This course surveys evidence-based physical therapy examination, evaluation, and
interventions for patients with musculoskeletal pathologies and impairments. The student will apply clinical decision making and clinical practice guidelines. The course includes an overview of current intervention philosophies. ISBN: 978-0-0714-7401-6

**AHPT 8372 Neuromuscular Physical Therapy Practice (3:3:3:0:0)** This course surveys evidence-based physical therapy examination, evaluation, and interventions for patients with neuromuscular pathologies and impairments. The student will apply clinical decision making and clinical practice guidelines. The course includes an overview of current intervention philosophies to enhance neuroplasticity. ISBN: 978-1-60831-018-0

**AHPT 8373 Pediatric Physical Therapy Practice (3:3:3:0:0)** This course surveys evidence-based physical therapy examination, evaluation, and interventions for pediatric clients with musculoskeletal and neuromuscular conditions. The student will apply clinical decision making and clinical practice guidelines in different environments of care. ISBN: 13: 978-1-4160-6626-2

**AHPT 8375 Integumentary Physical Therapy Practice (3:3:3:0:0)** This course surveys evidence-based physical therapy examination, evaluation, and interventions for patients with integumentary pathologies. The student will apply clinical decision making and clinical practice guidelines. The course includes an overview of current intervention philosophies. ISBN: 978-0-8036-1904-3

**AHPT 8376 Geriatric Physical Therapy Practice (3:3:3:0:0)** This course surveys evidence-based physical therapy examination, evaluation, and interventions for geriatric patients with cardiopulmonary, musculoskeletal, or neuromuscular pathologies influenced by the aging process. The student will apply clinical decision making and clinical practice guidelines in different environments of care. ISBN: 978-0-323-02948-3
Doctor of Science in Physical Therapy

The mission for the Doctor of Science in Physical Therapy (Sc.D.) Program is to provide advanced post-professional education to practicing physical therapists in Texas and nationwide. There is a strong need for advanced clinical mastery and Physical Therapy, creating unique decisions and functions for practicing physical therapists. The Sc.D. program will provide practitioners with the opportunity to develop the advanced knowledge base, clinical skills, and professional competencies needed for state-of-the-art evaluation and treatment of their patients, as well as the successful management of clinical services located in isolated practice settings. The Sc.D. program will provide clinicians a means to develop into highly skilled participants in clinical education and research, thus contributing to the growth and development of evidence-based practice within the profession.

There is a knowledge revolution found in Physical Therapy literature, advancing the boundaries of clinical science, technology, and therapeutic insight. This advancement has created potential for excellence in clinical evaluation, management and research skills. The Sc.D. program will prepare licensed therapists to develop the needed competencies in advanced Physical Therapy diagnosis and therapeutic interventions required in the isolated practice settings. The clinical doctorate is a logical means for therapists to achieve needed levels of expertise, specialization and to increase the level of sophistication, efficiency, efficacy, and clinical outcomes in physical therapists practice. This clinical expertise will equip the Sc.D. practitioner with the advanced skill set that is increasingly essential for successful practice. This advanced level of information, skills, competencies and critical thinking requires the rigorous, formalized study that is not available in an entry level program or post-graduate continuing education.

Program Description

The Sc.D. is a clinical doctoral degree designed for licensed Physical Therapy practitioners to develop into advanced clinicians. It emphasizes orthopaedic Physical Therapy in response to the great number of orthopaedic afflictions suffered by patients. Over 80% of all patients seeking Physical Therapy services suffer from orthopaedic afflictions. Thus, this program will provide concentrated study at the applied doctoral level in the clinical science areas of orthopaedic Physical Therapy practice.

The Sc.D. program emphasizes orthopaedic Physical Therapy diagnostics and manual therapy. Courses will be conducted through a weekend format with Web-based course enhancement. Faculty and students communicate with each other in person, via phone, fax, electronic mail or internet. Students entering the program should have ready access to a computer and be familiar with word processing, spreadsheet, and internet applications. Students without computers are required to purchase one and become familiar with it prior to beginning the program.
Admission to the Program

The following requirements will be considered for admission into the program:

- A Bachelor’s, Master’s, or Doctorate (D.P.T.) professional degree in Physical Therapy
- At least one year of clinical experience
- Currently practicing as a Physical Therapist
- All official college/university transcripts
- Acceptable grade point average
- Two supporting letters of reference

Application Process

Applications will be considered for Summer or Fall enrollment. The deadline for the Summer semester is March 15, and June 1 for Fall admissions. Two reference letters are required; one from a professional colleague and one from a previous or present employer.

Applicants must complete and submit the online application. Additional application materials should be sent to the Texas Tech University Health Sciences Center, Office of the Registrar, 3601 4th Street, Stop 8310, Lubbock, Texas 79430. Applicants should understand that fulfillment of the basic requirements does not guarantee admission.

Program Curriculum

The following courses are offered at least once every two years. Sc.D. students with a Bachelor’s degree are required to successfully complete a minimum of 70 hours from the following curriculum. Students with a Master’s degree are required to successfully complete a minimum of 48 semester hours. Students with a DPT are required to successfully complete a minimum of 36-48 hours, depending on their previous DPT coursework. Each DPT applicant’s transcript is considered on a case-by-case basis and final required hours are determined by the admissions committee who will evaluate if any DPT courses will substitute for a ScD course. Requirements within each course section for DPT, Master’s or Bachelor’s graduates are provided below. Students will select either the Teaching or Research Track early in their curriculum. While each student’s curriculum schedule is flexible, students are expected to finish the program within seven years.

Clinical, Core, and Elective Coursework

CLINICAL COURSEWORK

D.P.T. & Master’s graduates are required to successfully complete 6 courses (either all extremity or all spine), B.S.P.T. graduates are required to successfully complete all

Clinical coursework will be completed by attending clinical courses that will be offered at several sites around the state of Texas. Each of these courses will
included 30 contact hours (15 lecture, 15 lab) of traditional classroom and clinical laboratory contact over an extended weekend. In addition to the outside reading that will be assigned to the students, they will participate in 30 hours of interactive work (1 hour lecture, 2 hours of lab per week for 15 weeks) on the Sc.D. website that complements the class and lab coursework. The website work will provide discussions and interactive sessions concerning related basic and applied science topics that are linked to the course material.

### Extremity Topic Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 6321</td>
<td>Advanced Clinical Practice for the Shoulder Complex</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6322</td>
<td>Advanced Clinical Practice for Elbow &amp; Forearm</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6323</td>
<td>Advanced Clinical Practice for Wrist &amp; Hand</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6324</td>
<td>Advanced Clinical Practice for the Hip Complex</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6325</td>
<td>Advanced Clinical Practice for the Knee Complex</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6326</td>
<td>Advanced Clinical Practice for the Ankle &amp; Foot</td>
<td>3</td>
</tr>
</tbody>
</table>

### Spine Topic Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 6327</td>
<td>Advanced Clinical Practice for the Upper Cervical Spine</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6328</td>
<td>Advanced Clinical Practice for the Lower Cervical Spine</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6329</td>
<td>Advanced Clinical Practice for CTJ &amp; TOS</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6330</td>
<td>Advanced Clinical Practice for the Thoracic Spine &amp; Ribs</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6331</td>
<td>Advanced Clinical Practice for Acute Lumbosacral Pain</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6332</td>
<td>Advanced Clinical Practice for Recurrent &amp; Chronic Lumbosacral Pain</td>
<td>3</td>
</tr>
</tbody>
</table>

The total core and elective coursework (16 semester hours for the DPT and Master’s graduate and 25 hours for the BSPT graduate) will include basic and applied sciences related to orthopaedic medicine, clinical science and Physical Therapy management. Class attendance will be accomplished in two different ways: (1) web-supported learning; (2) traditional classroom or laboratory setting over long weekends.

### CORE COURSES

*D.P.T., Master’s, and B.S.P.T. graduates are required to successfully complete all* 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 6317</td>
<td>Radiological Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 6404</td>
<td>Orthopaedic Physical Therapy Screening</td>
<td>4</td>
</tr>
</tbody>
</table>
ELECTIVES

D.P.T. & Master’s graduates attend 3, B.S.P.T. graduates attend 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 6303</td>
<td>Basic &amp; Applied Science in Orthopaedics 3</td>
</tr>
<tr>
<td>AHPT 6305</td>
<td>Updates in Orthopaedic Surgical Management 3</td>
</tr>
<tr>
<td>AHPT 6311</td>
<td>Clinical Studies in Anatomy; a Lab Course 3</td>
</tr>
<tr>
<td>AHPT 6312</td>
<td>Neuroscience of Pain 3</td>
</tr>
<tr>
<td>AHPT 6313</td>
<td>Biomechanics in Orthopaedic Physical Therapy 3</td>
</tr>
<tr>
<td>AHPT 6314</td>
<td>Motor Control in Orthopaedic Physical Therapy 3</td>
</tr>
<tr>
<td>AHPT 6319</td>
<td>Contemporary Topics in Autonomous Practice 3</td>
</tr>
</tbody>
</table>

Student evaluation for each didactic course will depend on the course. For many of the long weekend courses, the students will be evaluated through course participation, article abstracts, examinations, and term papers. For the website courses, students will be evaluated with online examinations, term papers, and logged participation in chat-room discussions.

Teaching Track

This track emphasizes the theories, skills, and tools required for effective teaching in Physical Therapy. Students’ clinical projects will emphasize the development, implementation and evaluation of a course or course component with other health professionals, patients, or the general public.

EDUCATION COURSES

D.P.T., Master’s and B.S.P.T. graduates are required to successfully complete all

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 7404</td>
<td>Educational Evaluation in Allied Health 4</td>
</tr>
</tbody>
</table>

CLINICAL PROJECT

D.P.T., Master’s, and B.S.P.T. graduates are required to successfully complete all

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 7000</td>
<td>Clinical Research/ Education Project 3</td>
</tr>
<tr>
<td>AHPT 7104</td>
<td>Clinical Research/ Education Project Presentation 1</td>
</tr>
<tr>
<td>AHPT 7305</td>
<td>Curriculum Design and Teaching in Allied Health 3</td>
</tr>
</tbody>
</table>

Research Track

This track emphasizes the theories, skills, and tools required for effective research in Physical Therapy. Students’ clinical projects will emphasize the development, implementation, analysis and discussion of a clinical research project in a practice setting.
**STATISTICS COURSES**

_D.P.T., Master’s, and B.S.P.T. graduates are required to successfully complete all_

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 7406 Advanced Statistics in Allied Health Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

**CLINICAL PROJECT**

_D.P.T., Master’s, and B.S.P.T. graduates are required to successfully complete all_

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPT 7000 Clinical Research/ Education Project</td>
<td>3</td>
</tr>
<tr>
<td>AHPT 7104 Clinical Research/ Education Project Presentation</td>
<td>1</td>
</tr>
<tr>
<td>AHPT 7301 Seminar in Clinical Research Design</td>
<td>3</td>
</tr>
</tbody>
</table>

During post-professional studies, students are required to adhere to all program policies and academic and behavioral guidelines as stated in the Physical Therapy Doctoral Student Policy Manual. Expenses incurred during all weekend courses and clinical rotations are the responsibility of the student.

**Course Descriptions**

**AHPT 6303 Basic and Applied Science in Orthopaedics (3:3:2:3:0)**
This course addresses select basic science processes associated within the musculoskeletal system. These include histology and physiology of bone, cartilage, tendons, and ligaments. Muscle physiology will also be discussed as it relates to orthopaedic dysfunction. ISBN: 0683302477

**AHPT 6305 Updates in Orthopaedic Surgical Management (3:3:2:3:0)**
This course will evaluate recent developments from the literature in orthopaedic surgical management, in terms of indications, methodology, and rehabilitation. Emphasis will be placed on the implications of each procedure for rehabilitation. Specific rehabilitation measures will be discussed and related to techniques taught in other SC.D. courses within the curriculum. No textbook is required.

**AHPT 6311 Clinical Studies in Anatomy; a Lab Course (3:3:2:3:0)**
This course will allow students to observe prospected human cadaveric specimens with emphasis on musculoskeletal structures. Each ½ day session will include a short lecture at the beginning for review of anatomical structures to be observed, as well as the relevance of each of those structures to examination and treatment of orthopaedic afflictions. (There will be a lab fee associated with this course). ISBN: 1582558566; ISBN: 1455755764

**AHPT 6312 Neuroscience of Pain (3:3:2:3:0)**
This course addresses select neuroscience processes associated within the musculoskeletal system. These include the sensory function and integration; and dysfunction of the nervous system as it relates to orthopaedic afflictions, including pain production and control; neuroscience of motor planning, initiation and control in response to pain. ISBN:0443067511

*School of Allied Health Sciences*
AHPT 6313 Biomechanics in Orthopaedic Physical Therapy (3:3:2:3:0)
This course will emphasize the biomechanics of musculoskeletal structures, including bone, cartilage, ligament, tendon, and muscle tissue. Emphasis on joint and tissue mechanics will be related to musculoskeletal injury and orthopaedic affliction. ISBN: 0683302477; ISBN: 073603966X

AHPT 6314 Motor Control in Orthopaedic Physical Therapy (3:3:2:3:0)
This course will emphasize motor control strategies associated with musculoskeletal function and motor control dysfunction associated with orthopaedic pathologies. This course will integrate concepts from exercise science and experimental psychology for the explanation of relevant issues concerning motor learning and control for the orthopaedic patient. Additionally, patient management strategies derived from these principles will be discussed. ISBN: 0736079610

AHPT 6317 Radiological Anatomy (3:3:2:3:0) Examines the technology and applications of imaging for understanding normal and pathological human anatomy. Plain-film imaging, MRI, CT, and diagnostic ultrasound will be appropriately applied to this discussion. A systematic approach to understanding various images across different joint systems will be provided. In addition, specific normal and pathological anatomy for the spine and extremities will be viewed on x-ray, MRI, and CT, along with special topics in diagnostic ultrasound. Emphasis will be placed on defining normal and pathological anatomy associated with various joints systems as it relates to musculoskeletal conditions. These topics will be related to evidence-based clinical practice of musculoskeletal disorders that is appropriate for the Physical Therapist. Evidence-based readings and web-supported tutorials will be utilized. ISBN: 1608312879

AHPT 6319 Contemporary Topics in Autonomous Practice (3:3:2:3:0)
This course will address selected special topics in modern orthopaedic Physical Therapy practice. This course will emphasize special topics not covered in the other courses within the ScD curriculum. Selected special topics will serve as the cornerstone of the course, including modern soft tissue examination and management, while other topics will change in pace with changes in contemporary Physical Therapy clinical practice. Patient examination and management strategies derived from these principles will be discussed. No textbook is required.

AHPT 6321 Advanced Clinical Practice for the Shoulder Complex (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the shoulder complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, impingement, instability, labral afflictions, and soft tissue lesions. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.
AHPT 6322 Advanced Clinical Practice for the Elbow & Forearm (3:3:2:3:0)
This course deals presents the examination and treatment of afflictions in the elbow / forearm complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, instability, peripheral nerve mobility limits and entrapment, and soft tissue afflictions (including tendinitis and bursitis). Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6323 Advanced Clinical Practice for the Wrist & Hand (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the wrist / hand complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, instability, peripheral nerve mobility limits and entrapment (including Carpal Tunnel Syndrome), and soft tissue afflictions (including tendinitis and tenosynovitis). Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6324 Advanced Clinical Practice for the Hip Complex (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the hip complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, instability, peripheral nerve mobility limits and entrapment, and soft tissue afflictions (including tendinitis and bursitis). Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6325 Advanced Clinical Practice for the Knee Complex (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the knee complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, instability, meniscal afflictions, and soft tissue afflictions (including tendinitis and bursitis). Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.
AHPT 6326 Advanced Clinical Practice for the Ankle & Foot (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the ankle / foot complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, instability, peripheral nerve mobility limits and entrapment (including Tarsal Tunnel Syndrome), and soft tissue afflictions (including tendinitis, tenosynovitis, fasciitis, and bursitis). Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6327 Advanced Clinical Practice for the Upper Cervical Spine (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the Upper Cervical complex. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to arthritis / arthrosis, chondropathy / chondromalacia, instability, degeneration, cervicogenic headache, vascular afflictions, and soft tissue afflictions. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6328 Advanced Clinical Practice for the Lower Cervical Spine (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the Cervical Disc Segments (CDS). The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to acute cervical spine afflictions; recurrent afflictions that include instability, stenosis / spondylosis, and soft tissue afflictions; and chronic cervical pain. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6329 Advanced Clinical Practice for the CTJ & TOS (3:3:2:3:0)
This course presents the examination and treatment of afflictions in the Cervico-Thoracic Junction (CTJ). The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to acute upper thoracic afflictions, recurrent upper thoracic afflictions, instability, Thoracic Outlet Syndrome (TOS), soft tissue afflictions, and chronic upper thoracic pain. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.
AHPT 6330 Advanced Clinical Practice for the Thoracic Spine & Ribs (3:3:2:3:0) This course presents the examination and treatment of afflictions in the Thoracic Spine and ribs. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to acute thoracic spine afflictions, recurrent thoracic spine afflictions, instability, arthrosis / arthritis, soft tissue afflictions and chronic thoracic pain. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6331 Advanced Clinical Practice for Acute Lumbosacral Pain (3:3:2:3:0) This course presents the examination and treatment of acute lumbar spine afflictions and afflictions of the SIJ, and LDSE. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, treatment to acute discogenic afflictions, and joint-specific treatment measures to the SacroIliac Joint. This course includes management approaches to acute discogenic afflictions, as well as SIJ pain, hypomobilities and hypermobilities. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6332 Advanced Clinical Practice for Recurrent and Chronic Lumbosacral Pain (3:3:2:3:0) This course presents the examination and treatment of recurrent and chronic afflictions in the lumbar spine. The lecture components of this course include advancements in patho-anatomy, biomechanics, interpretation of functional examination, pathology, and treatment approaches. Clinical laboratory sessions include surface anatomy, basic functional examination and special tests, soft tissue treatments, and joint-specific treatment measures. This course includes management approaches to instability, stenosis / spondylosis, arthritis / arthrosis, chondropathy / chondromalacia, soft tissue afflictions and chronic lumbosacral pain. Case studies will be discussed and mock clinic sessions will be conducted. No textbook is required.

AHPT 6404 Orthopaedic Physical Therapy Screening (4:4:3:4:0) This course will enhance physical therapists’ knowledge and clinical skills designed to assist in the screening of patients for orthopaedic conditions which require examination by a physician. The class experiences should strengthen professional communication between physical therapists and physicians facilitating patient referral to physician. Radiology and laboratory screening are presented as special topics to enhance the therapist’s understanding of pathology and the clinical implications of patient presentation. ISBN: 1437725430; ISBN: 1416061053
AHPT 7000 Clinical Research / Education Project (3:3:0:0:3) This is the student's independent clinical project. Content and goals will be established through mutual consent of student and instructor. No textbook is required.

AHPT 7001 Clinical Research / Education Project 2 (3:3:0:0:3) Prerequisite: AHPT 7000. This is the continuation of a student's independent clinical project. Content and goals will be established through mutual consent of student and instructor. No textbook is required.

AHPT 7002 Clinical Research / Education Project 3 (3:3:0:0:3) Prerequisite: AHPT 7000 & AHPT 7001. This is the continuation of a student's independent clinical project. Content and goals will be established through mutual consent of student and instructor. No textbook is required.

AHPT 7104 Clinical Research / Education Project Presentation (1:1:0:0:1) For this credit, the student will present the development and findings from the project clinical project before the Sc.D. faculty, other students and clinicians from the community. No textbook is required.

AHPT 7301 Seminar in Clinical Research Design (3:3:2:3:0) This course will emphasize methods in clinical research. This will include processes of obtaining, processing, interpreting, and using clinical data. ISBN: 0131716409

AHPT 7305 Curriculum Design and Teaching in Allied Health (3:3:2:3:0) This course discusses the theories and applications of curriculum design, emphasizing applications to entry-level and post-professional educational settings in Physical Therapy. Students are exposed to core theories, principles and applications that relate to teaching Physical Therapy students and professionals. ISBN: 1133936792

AHPT 7404 Educational Evaluation in Allied Health (4:4:3:4:0) This course will discuss educational evaluation theory and tools, emphasizing methods of objective and performance-based evaluation. Students will learn to draft specific evaluation measures used in an educational setting. ISBN: 0132689669

AHPT 7406 Advanced Statistics in Allied Health Sciences (4:4:3:4:0) This course will familiarize the student with various tools used in parametric and non-parametric statistical analyses. Parametric tools will include Pearson r correlation, regression, t-test, analysis of variance, and selected multivariate designs. Non-parametric tools will include one, two, and k-sample designs; as well as Spearman, phi, and point biserial correlation coefficients. The course will include single-subject design, sequential clinical trials, and survey methodology. Emphasis will be placed on research findings that evaluate specific clinical populations. ISBN: 0131716409
Doctor of Philosophy in Rehabilitation Sciences (Ph.D.)

Program Description
Rehabilitation sciences is an interdisciplinary field of study that investigates theories and practices that contribute to improving the quality of life of individuals who have functional limitations caused by physical impairments. The mission of the Doctor of Philosophy (PhD) in Rehabilitation Sciences program is to educate the next generation of faculty scholars (teachers and researchers) to advance knowledge in rehabilitation sciences and prepare them to educate future rehabilitation health care professionals.

Admission to the Program
Admission to the Doctor of Philosophy in Rehabilitation Sciences program is competitive and is based in part on the candidate’s academic record, professional experiences, goals, interests, GRE scores, and potential to substantively contribute to the field of rehabilitation sciences. Candidates for admission must hold a bachelor’s degree or higher in a related field (e.g., physical therapy, occupational therapy, athletic training, kinesiology, biology, medicine, biomedical engineering, etc.). Candidates must submit official transcripts that reflect the earned degree and a minimum cumulative GPA of 3.0 out of 4.0. Candidates who hold a Bachelor’s degree must have an undergraduate GPA of 3.0 or better, while candidates who hold a higher degree must have at least a 3.0 GPA for each undergraduate and graduate degree, as applicable. Candidates also must submit official GRE scores (verbal, quantitative, analytical, writing); at least three letters of recommendation; a formal and well-crafted letter of intent specifying appropriate goals, interests, and work or other experiences consistent with the objectives of the program; a current résumé; and any other pertinent information that is volunteered. Candidates who speak English as a second language must submit official TOEFL scores. Qualified candidates will be interviewed by at least one member of the PhD admissions committee prior to a formal decision about acceptance into the program.

Applications for admission should be submitted by February 1 for the Summer semester, April 30 for the Fall semester and October 15 for the Spring semester.

Program Curriculum
The PhD in Rehabilitation Sciences program is an interdisciplinary program that requires completion of 88 semester credit hours post-baccalaureate, including 76 semester credit hours of course work and 12 semester credit hours of dissertation. Up to 24 semester credit hours may be transferred from an approved graduate program. Students entering the program who hold a bachelor’s degree or a
graduate degree without a thesis must successfully complete a research project within the program prior to embarking on dissertation research. All students must successfully complete a qualifying examination for admission to candidacy prior to beginning the dissertation. All students must successfully complete a doctoral dissertation.

The PhD in Rehabilitation Sciences program curriculum consists of five major content areas: Rehabilitation Sciences core (32 credit hours), pedagogy and teaching (5 credit hours), approved electives (12 credit hours), research tools (21 credit hours), and research (18 credit hours, including 12 credit hours of dissertation). Students will enroll in courses at TTUHSC and TTU and typically will enroll continuously in Summer, Fall, and Spring semesters. Students will emphasize a primary area of specialization in the rehabilitation sciences based on their selection of elective courses and faculty advisor. Students will develop a secondary area of academic interest based on their selection of elective courses and examination committee members. Doctoral students may pursue research in clinical anatomy, clinical biomechanics, clinical musculoskeletal rehabilitation, clinical neuromuscular and postural control, or clinical behavior in rehabilitation.

**Course Descriptions**

**AHRS 5189, 5289, 5389 Special Topics in Rehabilitation Sciences (1:1:1:0:0; 2:2:2:0:0; 3:3:3:0:0)** Selected topics of interest in the rehabilitation sciences. No textbook is required.

**AHRS 5199, 5299, 5399 Independent Study in Rehabilitation Sciences (1:1:0:0:1; 2:2:0:0:2; 3:3:0:0:3)** This course involves an independent project designed to meet the student’s needs. Possible experiences include a library research project or paper, course/laboratory review, teaching materials preparation, teaching assistant participation, laboratory manual development, or a teaching, clinical or research observation. No textbook is required.

**AHRS 5100 History and Philosophy of Rehabilitation Sciences (1:1:1:0:0)** An exploration of the history and philosophy of physical rehabilitation, key sub-disciplines, and the applied sciences that support and inform the physical rehabilitation professions. ISBN: 978-0-309-6374-6


**AHRS 5314 Motor Control in Orthopaedics(3:3:3:0:0)** This course will address theory and application of motor control and learning principles to orthopaedic clinical practice. This course will emphasize motor control strategies associated with musculoskeletal function, and motor control dysfunction associated with orthopaedic pathologies. This course will integrate concepts from exercise science and experimental psychology for
the explanation of relevant issues concerning motor learning and control for the orthopaedic patient. Additionally, patient management strategies derived from these principles will be discussed. ISBN: 0736079610.

AHRS 5320 Computer Methods in Rehabilitation Sciences (3:3:3:0:0) This course provides an introduction to problem solving and custom program development in Matlab for rehabilitation sciences research. ISBN: 978-0-12-385081-2.


AHRS 5407 Pathophysiology (4:4:4:0:0) This course provides a survey of clinical pathophysiology and covers key concepts related to the function and biological control of cells, tissues, organs, and body systems as well as structural and functional changes in cells, tissues and organs that underlie human disease. Basic principles of pathophysiology are addressed with focus on the cause, development, progress, and consequences of diseases related to the nervous, musculoskeletal, cardiorespiratory, immune, endocrine, gastrointestinal, and other body systems. ISBN: 978-1416031185; ISBN: 978-1416054511.

AHRS 5418 Neuroscience (4:4:4:0:0) Functions and pathologies of the central nervous system (CNS) as a basic science course in the neurorehabilitation curriculum. The emphasis will be on “systems-level neuroanatomy,” i.e., functional neuroanatomy (e.g., motor and sensory pathways) and regional neuroanatomy (e.g., organization of spinal cord, brainstem, cerebral cortex, etc.). In addition, information processing by neurons will be addressed by coverage of axon physiology, synaptic neurotransmission and plasticity. The course will first survey the anatomical organization of the CNS, then sensory and motor functions of the CNS, and finish with a description of a number of neurological disorders that have clinical relevance to rehabilitation clinicians. ISBN: 978-1416025788

AHRS 6101, 6102, 6103, 6104 Seminar in Rehabilitation Sciences Research (1:1:1:0:0) Selected topics in rehabilitation sciences research explored through reading and discussion. No textbook is required.

AHRS 6111, 6112 Seminar in Rehabilitation Sciences Professional Development (1:1:1:0:0) Selected topics in rehabilitation sciences professional development explored through reading and discussion. ISBN: 978-1-579226442

AHRS 6151, 6152 Teaching Apprenticeship (1:0:0:1) Students will participate in teaching a course in rehabilitation sciences while under faculty supervision. No textbook is required.

AHRS 6201 Methods in Clinical Anatomy Research (2:2:0:0:2) Methods and laboratory techniques in clinical anatomy research. No textbook is required.

AHRS 6202 Methods in Clinical Behavior in Rehabilitation Research (2:2:0:0:2) Methods and laboratory techniques in clinical behavior in rehabilitation research. No textbook is required.


AHRS 6204 Methods in Clinical Musculoskeletal Rehabilitation Research (2:2:0:0:2) Methods and laboratory techniques in clinical musculoskeletal rehabilitation research. No textbook is required.

AHRS 6205 Methods in Clinical Neuromuscular and Postural Control Research (2:2:0:0:2) Methods and laboratory techniques in clinical neuromuscular and postural control research. No textbook is required.

AHRS 7001, 7002, 7003, 7004, 7005, 7006 Research (V1-9) Students will participate in rehabilitation sciences research while under faculty supervision. No textbook is required.

AHRS 8001, 8002, 8003, 8004, 8005, 8006 Doctoral Dissertation (V1-9) Research for an advanced degree. The Doctor of Philosophy degree in Rehabilitation Sciences is a research degree and is conferred only after recognition of high achievement in independent scientific research and scholarship. No textbook is required.
The PhD in Rehabilitation Sciences curriculum also includes courses from other graduate programs in the Department of Rehabilitation Sciences, as well as from other departments at Texas Tech University Health Sciences Center and Texas Tech University.
DEPARTMENT OF CLINIC ADMINISTRATION AND REHABILITATION COUNSELING
Program in Clinical Services Management

The objective of this program is to expand educational access to graduates of community college technical programs in allied health disciplines who frequently find themselves blocked from advancement educationally and professionally because of the technical emphasis in their Associate of Applied Sciences (A.A.S.) degree. This program provides the appropriate educational foundation and prerequisite credit hours to students who have an A.A.S. degree and desire to pursue a baccalaureate degree. The program also offers the didactic educational requirements for a long-term care administration track. Community college graduates are the primary candidates for the program. Examples are Certified Occupational Therapy Assistants, Physical Therapy Assistants, Radiology Technologists, Respiratory Care Technicians, Medical Technologists, and Emergency Medical Technicians.

Program Description

The B.S., CSM degree program operates as a “2 + 2” format to provide wide exposure to the skills, knowledge, and abilities needed for success in supervisory management in the U.S. healthcare delivery system. The B.S., CSM degree program will prepare students with the competencies needed to enter various supervisory and entry-level management positions in hospital-based departments or sub-units, community based healthcare operations, long term care facilities, sub-acute care facilities, home health agencies, independent living centers, and ambulatory clinics. Upon completion of the program, students will possess the competencies and skills necessary for successfully meeting the challenges presented by the current and evolving healthcare delivery system.

Requirements for graduation will include the successful completion of a minimum of 120 semester credit hours. The program courses are conveniently offered through the use of distance education technology by using SAKAI and internet access. The curriculum structure will follow a non-traditional format, which allows for completion of degree requirements at a pace set by the ability and availability of the student.

Admission to the Program

Unconditional Admission: Students who have an Associate of Applied Sciences degree in an allied health discipline, and have completed the common core curriculum requirement for a baccalaureate degree, can apply for unconditional admission to the CSM program.

Provisional Admission: Applicants who have prerequisite course work completed over seven years prior to the application date; have not completed the common core curriculum requirements for a baccalaureate degree; have an A.A. or A.S. degree; or have 67 credit hours of lower division B.S. degree courses work; may be granted provisional admission. Students accepted on this basis must demonstrate their ability to meet the academic demands of the program.
Core Curriculum Prerequisites

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Political Science</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Curriculum Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours = 42

Application Process

Applications may be submitted at any time. It is in the best interest of the applicant to apply as early as possible prior to the semester in which the applicant plans to begin.

Applications must be completed online. https://www.ttuhsc.edu/merlin
Additional application materials should be sent to the Texas Tech University Health Sciences Center, Office of the Registrar, 3601 4th Street, Stop 8310, Lubbock, Texas 79430.

CSM Curriculum

The program consists of 54 semester credit hours of upper-level undergraduate courses. Courses will rotate and students will register as they appear each semester. Students will select courses from their degree plan and register each semester to complete the 120 hour degree plan objective. The distance education format relies primarily on internet based (WebCT) courses offerings. The program requires the completion of all required core courses prior to enrollment in the advanced management courses and electives.

Students enrolled in the Clinic Services Management (CSM) program are required to complete the final six (6) academic hours through CSM program courses. AHCM 4478 is the program capstone course and must be taken in the last semester of enrollment prior to completion of the program. Exceptions to this policy may be considered by the Program Director on a case by case basis.

Required Core Courses

- AHCM 4302 Financial Management for Clinical Supervisors
- AHCM 4303 Principles of Personnel Management for Clinical Supervisors
- AHCM 4304 Management of Clinical Support Services in Healthcare Organizations
- AHCM 4306 Marketing Principles and Entrepreneurship
- AHCM 4311 US Healthcare System
### Required Advanced Management Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCM 4313</td>
<td>Community Health Issues</td>
</tr>
<tr>
<td>AHCM 4314</td>
<td>Quality Assurance/Risk Management</td>
</tr>
<tr>
<td>AHCM 4317</td>
<td>Statistics for Healthcare Supervisors</td>
</tr>
<tr>
<td>AHCM 4331</td>
<td>Leadership in Healthcare Organizations</td>
</tr>
<tr>
<td>AHCM 4318</td>
<td>Healthcare Law/Ethics</td>
</tr>
<tr>
<td>AHCM 4401</td>
<td>Healthcare Management Information Systems</td>
</tr>
<tr>
<td>AHCM 4477</td>
<td>Case Study – Summer I</td>
</tr>
<tr>
<td>AHCM 4478</td>
<td>Case Study – Summer II</td>
</tr>
</tbody>
</table>

### Elective Courses*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCM 4305</td>
<td>Capital Project Design</td>
</tr>
<tr>
<td>AHCM 4308</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>AHCM 4312</td>
<td>Foundations of Managed Care</td>
</tr>
<tr>
<td>AHCM 4315</td>
<td>Issues in Gerontology for Healthcare Managers</td>
</tr>
<tr>
<td>AHCM 4316</td>
<td>Integrated Deliver Systems and Organizational Relations</td>
</tr>
<tr>
<td>AHCM 4320</td>
<td>Long-term Care Management</td>
</tr>
<tr>
<td>AHCM 4321</td>
<td>Regulatory Aspects of Long Term Care</td>
</tr>
<tr>
<td>AHCM 4360</td>
<td>Special Topics</td>
</tr>
<tr>
<td>AHCM 4361 S</td>
<td>Special Topics</td>
</tr>
</tbody>
</table>

*Students must complete any four of the elective courses.*

### Course Descriptions

**AHCM 4302 Financial Management for Clinical Supervisors (3:3:3:0:0)**
Examines the basic principles of financial management related to clinical support activities. Topics will include healthcare accounting systems, revenue planning, cost accounting, departmental budgeting, resource management allocation, and reimbursement programs that are common to the clinical support service setting. ISBN: 978-156793277-5

**AHCM 4303 Principles of Personnel Management for Clinical Supervisors (3:3:3:0:0)** Provides an overview of interpersonal dynamics, conflict resolution, and supervisor responsibilities. Topics include task analysis, developing position descriptions, recruiting, employee supervision, labor law, benefit programs, and personnel contracts. Includes a review of case studies that demonstrate the impact of the human resource functions in healthcare organizations. ISBN: 978-0-324-31704-6

**AHCM 4304 Management of Clinical Support Services in Healthcare Organizations (3:3:3:0:0)** Provides an overview of operations management and practical decision-making by analyzing the day-to-day operations in clinical support service activities. Identification of problem solving approaches to problems in personnel staffing, personnel training and directing, performance measurement, patient flow, facility configuration, materials management. ISBN: 978-0-7637-6865-2

AHCM 4306 Marketing Principles and Entrepreneurship for Healthcare Professionals (3:3:3:0:0) The course covers the principles of marketing and their application in healthcare delivery systems. Topics include the concepts and tools to conduct a community needs assessment, market research, and creation of a business plan for the delivery of healthcare services. ISBN: 978-0-7637-8333-4

AHCM 4308 – Organizational Behavior (3:3:3:0:0) An overview of group and organizational structures and dynamics that affect individual, group, and organizational behavior. Topics include performance, job satisfaction, motivation, groups, decision making and task design. ISBN: 978-0-7637-6383-1

AHCM 4311 The U.S. Healthcare System (3:3:3:0:0) A review of the healthcare system, both public and private sector. Examines the system’s organizational structures and the legislative, legal, and market impacts upon the current integrated delivery system. The course will review all levels such as healthcare systems (For-Profit and Not-For-Profit), inpatient facilities, hospital based services, outpatient services, home health agencies, sub-acute care facilities, and long term care. Topics include rural healthcare issues, areas designated as medically under-served and health professional shortage areas (HPSAs), legislation, healthcare operations, and regional networks. ISBN: 978-0-7637-8458-4

AHCM 4312 Foundations of Managed Care (3:3:3:0:0) Examines principles of managed care and contemporary issues in the organization and administration of managed healthcare organizations. Topics include ambulatory organizations, integrated delivery systems, providing services to a population through a medical group practice, and managed care contracting. ISBN: 978-0-7637-3983-6

AHCM 4313 Community Health Issues (3:3:3:0:0) A review of national, state, and local community agencies; preventive health services, public health, wellness, personal fitness, stress management, changing lifestyles, and analysis of national issues in the past 50 years. Includes a review of statistical principles used by management in the healthcare industry. Topics will cover community health in a defined population, determining prevalence rates, origins and causes, mortality and morbidity rates, and determining effectiveness of healthcare services. ISBN: 978-0-7637-4634-6

AHCM 4314 Quality Assurance and Risk Management (3:3:3:0:0) The course provides an overview of legal requirements and ethical standards in healthcare. Topics include the principles of Total Quality Management (TQM),
Continuous Quality Improvement (CQI), Joint Commission on Accreditation of Healthcare Organizations (JCAHO) requirements, quality assurance, risk management, outcomes measures, benchmarking, and utilization management in the clinical support service setting. Includes an overview of case law that has resulted from the expectations of patients and payers; fiduciary responsibility of hospital boards and districts, and changing technology. ISBN: 0-7637-2712-1

AHCM 4315 Issues in Gerontology for Healthcare Managers (3:3:3:0:0)
Overview of the physical, psychosocial, cognitive, cultural, and environmental factors that affect persons as they age. Special topics include financial and administrative issues that affect patient services, adaptive equipment, assistive technology, and community resources. ISBN: 978-1-4129-6966-6

AHCM 4316 Integrated Delivery Systems and Organizational Relationships (3:3:3:0:0)
An overview of the components and organizational issues of integrated delivery systems, the interaction of interdisciplinary staff composed of technicians and professionals, team building, product line service delivery and operational management in the clinical support service setting. ISBN: 0-7637-3151-X

AHCM 4317 Statistics for Healthcare Supervisors (3:3:3:0:0)
Introduction to descriptive and inferential statistics, quantitative and qualitative research designs, and relate their application for clinical and managerial operations in a healthcare organization. ISBN: 0-7167-5881-4

AHCM 4318 Healthcare Law & Ethics (3:3:3:0:0)
An introduction to the regulatory, legal, and ethical issues related to the healthcare delivery industry. Topics of study are directed toward reimbursement issues; utilization review; HIPPA; patient rights; malpractice; long-term regulatory issues; and federal, state, and local statutes. ISBN: 978-0-7637-6473-9

AHCM 4320 Long Term Care Management (3:3:3:0:0)
An overview of the nursing home industry and the managerial requirements associated with long term care institutions. Topics of study focus on an introduction to: state and federal regulatory aspects of facility management, care delivery systems, reimbursement and personnel administration. ISBN: 1-56793-225-8

AHCM 4321 Regulatory Aspects of Long-Term Care (3:3:3:0:0)
Analysis and application of regulatory requirements in the daily operational environment of a certified and licensed long term care facility are covered. Topics in this course will include; Texas, Federal and JCAHO regulatory requirements in the care, architectural and life safety code compliance issues of long term care facility operations. ISBN: None (The Long Term Care Survey Manual)

AHCM 4331 Leadership in Healthcare Organizations (3:3:3:0:0)
The course presents an overview of management theory and leadership principles.
Topics include behavioral and managerial practices with emphasis upon interpersonal relations, problem solving skills, time management, stress management, and wellness. ISBN: 978-0-7637-8151-4

AHCM 4360, 4361 Special Topics (3:3:0:0) Guided independent research projects with focus upon a management problem in the clinical support service setting. Examples are assistive technology, early childhood intervention, grant writing, independent living centers, or rehabilitation services. No textbook is required.

AHCM 4363-4366 Long-Term Care Practicum (3:3:0:0) This supervised practical work experience, conducted in an approved long-term care facility, will prepare the student for a career as a Licensed Long Term Care Administrator through practical application of the didactic curriculum. Two semesters of this practicum are required to take the nursing home administrator licensure examination. Prerequisites: consent of the instructor. No textbook is required.

AHCM 4401 Healthcare Management Information Systems (4:4:0:0) A course in the basic concepts and the tools for collecting and analyzing data used by healthcare organizations. Topics include an overview of current desktop computer technology, local area networks (LAN) and integration of information system networks. Emphasis will be placed upon applications to medical records, patient registration systems, and appointment systems. Medical records administration will include the basic concepts and principles of creating, maintaining, and archiving medical information with consideration for legal requirements and confidentiality and explore the area of electronic media. ISBN: 978-1-56793-297-3

AHCM 4477, 4478 Case Study (4:4:0:0) Students enhance their knowledge within the clinical support service management field by application of the concepts, principles and tools acquired from the various Clinical Services Management courses. Topics addressed include: financial analysis, industry analysis, internal analysis, competitive advantage, marketing and strategic analysis and planning. Students in AHCM 4478 will be required to work on a guided independent research project on a healthcare organization. Prerequisites to AHCM 4478 include: AHCM 4302, 4303, 4304, 4306, 4311, 4317, 4318, and 4477. ISBN: 1-4051-2432-6
Program in Clinical Practice Management

Healthcare providers are often promoted into supervisory positions with minimal if any management training. This lack of training often leads to frustration and dissatisfaction on the part of the healthcare professional. The goal of the Master of Science in Clinical Practice Management is to offer a superior graduate level program consisting of evidence-based research, a focused management-based curriculum, individualized instruction, and mechanisms for personal and professional growth as a leader in the healthcare field.

The MSCPM is designed to provide practicing clinicians, allied health providers, and administrators with skills that will allow them to excel as healthcare leaders. The increasing complexity of theoretical and applied knowledge required for healthcare leadership and the growing demand for innovative problem solvers has necessitated the development of a cost-effective graduate program geared toward future healthcare leaders.

The degree is entirely distance-based, designed specifically to increase the availability to as many working healthcare leaders as possible. The use of Sakai in association with the Internet will provide a top-quality educational program requiring no coursework requirements on a traditional campus. The program is focused towards the practicing clinician, allied health provider, administrator, or other executive working in, or supporting the healthcare system.

Admission to the Program

Individuals applying to the program should already hold a bachelor’s degree from a regionally accredited college or university. A health related degree is preferred, but not required for admission into the program. To be considered for admission, an overall grade point average of 2.7 on a 4.0 scale in the last 60 hours of college credit is required. Provisional admission may be offered to applicants with a GPA less than 2.7. Such applications will be reviewed on an individual basis.

The following are considered in the admission’s process:

- All official college transcripts
- Acceptable grade point average
- Working healthcare (or related) experience
- The GRE/GMAT is not required
Application Process

Applications may be submitted at anytime; however, applications are considered approximately 3 months prior to the beginning of each term. It is in the best interest of the applicant to apply as early as possible. Applicants should understand that fulfillment of the basic requirements does not guarantee admission.

CPM Curriculum

The following courses are offered at least once every year. MSCPM students entering the program will be required to complete 36 semester hours to meet degree requirements. They will include 30 hours of core class requirements and 6 hours of elective courses. CPM II may only be taken in the last term. It is the degree capstone class.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCP 5303</td>
<td>Research Methods</td>
</tr>
<tr>
<td>AHCP 5305</td>
<td>Leadership &amp; Ethics in the Health Professions</td>
</tr>
<tr>
<td>AHCP 5306</td>
<td>Healthcare Delivery Systems</td>
</tr>
<tr>
<td>AHCP 5307</td>
<td>Practice Management I</td>
</tr>
<tr>
<td>AHCP 5308</td>
<td>Practice Management II</td>
</tr>
<tr>
<td>AHCP 5309</td>
<td>Decision Making with Business Statistics</td>
</tr>
<tr>
<td>AHCP 5310</td>
<td>Coding and Healthcare Law</td>
</tr>
<tr>
<td>AHCP 5311</td>
<td>Healthcare Finance and Resource Management</td>
</tr>
<tr>
<td>AHCP 5312</td>
<td>Marketing and Strategic Planning</td>
</tr>
<tr>
<td>AHCP 5330</td>
<td>Introduction to Informatics</td>
</tr>
</tbody>
</table>

Electives*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHCP 5301</td>
<td>Current Concepts in Healthcare</td>
</tr>
<tr>
<td>AHCP 5302</td>
<td>Medical Sociology</td>
</tr>
<tr>
<td>AHCP 5315</td>
<td>Professional Development and Healthcare Ethics</td>
</tr>
<tr>
<td>AHCP 5316</td>
<td>Independent Study</td>
</tr>
<tr>
<td>AHCP 5317</td>
<td>Introduction to Health and Public Policy</td>
</tr>
<tr>
<td>AHCP 5322</td>
<td>Risk, Quality and Patient Safety</td>
</tr>
</tbody>
</table>

*Students must complete any two of the elective courses.
Course Descriptions

AHCP 5301 Current Concepts in Healthcare (3:3:0:0:0) This course discusses topical issues that pertain to healthcare. These may include, but are not limited to, the delivery and financing of healthcare, technological advances in healthcare, consumer-important issues in healthcare, recent advances in the diagnosis, prevention, and treatment of disease, and legal issues related to healthcare. The course is conducted in a seminar format, with the instructor and students providing current material for discussion. Prior to enrolling in this course, the student is expected to have a firm foundation in the subject of healthcare delivery in the United States. Recommended prerequisite: AHCP 5306 Healthcare Delivery System. No textbook is required.

AHCP 5302 Medical Sociology (3:3:0:0:0) This course provides an introduction to central topics in the sociology of medicine, health, and illness. Topics include but are not limited to: epidemiology, history of medicine in the West, public health, the social stratification of illness, the medical profession, and health care provision, access and delivery. In exploring these topics, emphasis will be placed on how socio-economic factors such as age, gender, ethnicity, race, and financial status affect health care. ISBN: 978-0-205-82883-8

AHCP 5303 Research Methods (3:3:0:0:0) This course provides the basic statistical and methodological principles underlying clinical and theoretical research, research design, and techniques for conducting appropriate literature reviews. Students will critically evaluate measurement systems, interpretations of findings, and methodologies applied within the literature. ISBN: 978-0-07-159034-1

AHCP 5305 Leadership & Ethics in the Health Professions (3:3:0:0:0) The emphasis of this course is on understanding the fundamentals of leadership and ethics as it applies to leading personnel in health professionals. A heavy emphasis is placed on understanding the seminal concepts of leadership and ethics as it applies to organizational behavior and theory in practice within the health professions. Several leadership, personality and ability-job-fit diagnostics tests are given to students to discern natural leadership tendencies for decision making. These tests also support the creation of a personal ethical framework. These competencies and skills are later applied to case studies and practical exercise. Measurement of leadership performance and ethical outcomes are evaluated.

AHCP 5306 Healthcare Delivery System (3:3:0:0:0) This course provides the student with the basic understanding of the local and international origins, evolution, and trends in institutional and non-traditional healthcare delivery. Hospitals, ambulatory care organizations, managed care organizations, integrated delivery systems, and other models are discussed in detail. Additionally, various practitioners’ roles in the delivery of care within the different models are addressed. ISBN: 978-0-8261-2096-0
AHCP 5307 Practice Management I (3:3:0:0:0) This course discusses managerial principles, operations, and functions within healthcare delivery systems. Examination will focus on issues such as organizational design, operational measurement, and stakeholder management. Topics include theories of leadership, management, customer service, and negotiation. ISBN: 978-1567932584

AHCP 5308 Practice Management II (3:3:0:0:0) The course includes personnel management, organizational behavior, and operational issues within healthcare delivery systems. Examination will focus on individual, interpersonal, and group management, employment law, selection, discipline, motivation, staffing, productivity and team building. Prerequisite: This class may only be taken in the students last term in the program. ISBN: 978-1567932348

AHCP 5309 Decision Making with Statistics (3:3:0:0:0) Decision Making with Statistics is a unique blend of statistics, research methods, theory and decision-making practices applied to real world healthcare issues in the practice setting. The class is designed to give students experience working with large data sets, and confidence in selecting appropriate quantitative tools in management analysis using SPSS. Recommended prerequisite: AHCP 5303. Text provided by professor in PDF format.

AHCP 5310 Coding and Healthcare Law (3:3:0:0:0) This course addresses current CPT and HCPCS coding issues and healthcare related laws. The course will provide the learner with current coding requirements, reimbursement changes, and legal issues facing the healthcare industry. Topics include utilization review, HIPPA, patient rights, and malpractice legislation. ISBN: 978-1-57947-967-1

AHCP 5311 Healthcare Finance and Resource Management (3:3:0:0:0) This course concentrates on learning the fundamentals of Business Case Analysis (BCA). The purpose of this class is to assist the student in developing the necessary analytical ability, attitudes and decision making skills required of the clinical practice manager in a changing environment. The course provides in-depth knowledge of the business case analysis approach to decision-making in the ambulatory setting. ISBN: 978-1-56793-264-5; ISBN: 978-1-56793-342-0

AHCP 5312 Marketing and Strategic Planning (3:3:0:0:0) The purpose of this class is to integrate key aspects of marketing and strategic planning into a blended class that results in the completion of an integrated Business Plan for a new capital venture. The class examines strategic planning techniques, concepts, and practices as they apply to organizational survival. Leadership responsibilities regarding the creation of mission, vision, goals and objective statements are explored. The second half of the course integrates marketing with strategic planning such that the “Five P’s” of marketing, and the complementary roles of public relations, advertising, and sales (the marketing mix) are captured in the organizational analysis. ISBN: 978-1567932348
AHCP 5315 Professional Development and Healthcare Ethics (3:3:0:0:0) This course guides the student’s growth through professional development. Topics include effective communication, education, professionalism, ethical issues, practice expectations, and promotion of the student’s profession. ISBN: 978-1-4020-1460-4

AHCP 5316 Independent Study (3:3:0:0:0) Students are offered the choice of doing an independent comprehensive literature review, research, or practice-based work related to gerontology. Students design their study plan with faculty assistance. Students may only enroll in this course with the permission of the Program Director. No textbook is required.

AHCP 5317 Introduction to Health and Public Policy (3:3:0:0:0) This course presents an overview of policymaking and describes health and public policy in the United States. Questions concerning practical issues in problem identification, policy formulation, implementation, and policy evaluation are addressed in this course. Special emphasis is placed on the interaction of social, political, and economic forces in shaping health policies. ISBN: 978-0-7637-3442-8

AHCP 5322 Risk, Quality and Patient Safety (3:3:0:0:0) This course introduces the concepts of health care risk and quality management and how these domains go hand in hand with patient safety. Class work addresses the major elements of a risk management program including claims management, risk financing, risk reduction, and emergency preparedness. A “systems” approach to health care quality is provided including performance improvement methodologies, tools, and strategic initiatives to address continuous quality improvement. Appropriate standards, laws, and regulatory requirements are covered with special emphasis on compliance with Joint Commission accreditation. No textbook is required.

AHCP 5330 Introduction to Informatics (3:3:0:0:0) This course will introduce the student to the uses of information technology as it applies to healthcare, including information retrieval, electronic medical records, physician order entry, telemedicine, consumer health informatics, security, privacy, and confidentiality in the electronic environment, HIPAA regulations, ethics, computerized medical imaging, and decision support. The course will provide the student with the fundamental knowledge about information technology (IT) necessary to practice within the modern healthcare environment. ISBN: 978-0-387-28986-1
Program in Rehabilitation Counseling

The RC Profession

Work and working are highly valued in our society. Rehabilitation Counselors provide and coordinate services for individuals with a range of physical, psychiatric, and/or developmental disabilities. These professionals work to assist clients in gaining the skills and resources necessary to obtain meaningful work and lead full and self-satisfying lives. This is done through a range of activities, including: counseling, provision of adaptive equipment, vocational training, job placement, modifying the work environment, and assisting client’s to cope effectively with their environment and function as independently as possible.

This Rehabilitation Counselor education curriculum is designed to involve the learner as an active participant in the essential knowledge, skills and attitudes necessary for competent practice in the field; and conforms closely to the stated requirements for the graduate education of rehabilitation counseling professionals as set forth by accrediting and certification bodies. It is the intent of the program to graduate students who are:

- Ready to acknowledge the importance of ensuring dignity, independence, and wellness for persons with disabilities;
- Dedicated to adhering to the key values, standards, and codes of ethics as set forth by state and national licensing and certifying bodies;
- Engaged in reflective, creative problem-solving;
- Responsive to the needs of persons with disabilities;
- Sensitive to the collaborative therapeutic relationship;
- Involved in leadership roles to develop and enhance services;
- Able to act as a responsible advocate for persons with disabilities.

Graduates of the program can seek employment in state agencies, non-profit organizations, healthcare facilities, private rehabilitation firms, insurance companies, health management organizations, probation and corrections fields, educational institutions, private industry, and research organizations. The program actively recruits students from diverse populations and has a minority rate of 25%. Since the inception of the program over 87% of students who enter the program finish with their degree or certification requirements.

Program Purpose Statement

It is our purpose to provide a quality comprehensive rehabilitation counselor education program that is progressive in the areas of pedagogy, technology and research that fosters students’ personal and professional growth and provides leadership in the field at the local and national levels.
Program Goals

- To recruit, educate and graduate a diverse population of students who are prepared to provide rehabilitation counseling services in a variety of employment settings.
- To provide a rigorous academic environment that provides a solid foundation to prepare entry level Rehabilitation Counselors who meet national certification standards.
- To work closely with the public and private rehabilitation communities to ensure well-trained graduates who are considered valued employees.
- To develop a faculty that is valued by our students and the rehabilitation community for our teaching, research, and service.
- To achieve the highest quality program possible within the constraints of available financial, human, technological, and time resources.
- To develop commitment within students to empower individuals with disabilities to identify and maximize their resources to meet their developmental, vocational, independent living, and educational needs.
- To instill within students a commitment to develop a life-long commitment to learning professionalism continuing education throughout their career.

Accreditation

The Masters of Rehabilitation Counseling Program is accredited by the Council on Rehabilitation Education (CORE). Graduates of the TTUHSC program enjoy full benefits of CORE accreditation and may sit for the CRC examination, National Counselor Examination, and are eligible for licensure in the state of Texas.

Program Description

The Master of Rehabilitation Counseling (MRC) degree program is a distance education, 48 semester credit hour graduate program designed to provide a comprehensive exposure to the field of Rehabilitation Counseling. The MRC program was designed specifically for people who cannot attend traditional types of graduate programs. The program is ideal for people who are employed full time, who live in rural or isolated areas; have family or personal responsibilities that prevent them from taking on-campus study; or who simply cannot take extended time off to attend school. Texas Tech University Health Sciences Center (TTUHSC) uses a variety of methods and technologies to maximize the students’ educational experience, including web and internet based technologies, web conferencing teleconferencing, hard copy, videotape/audiotape, and at-site practicum experiences. These and other strategies are employed to ensure that all students, regardless of geographic location, are able to participate to the maximum degree possible in all aspects of their program. Students are not required to come to the TTUHSC campus.
Clinical Education

Clinical education is an integral aspect of the program. The MRC program complies with all requirements for practicum and clinical internships as set forth by the relevant accrediting and certifying organizations. In order to meet these requirements, Rehabilitation Counseling students will be required to undertake two forms of practical education during their program. First, all students will participate in a 100 hour supervised rehabilitation counseling practicum, which fosters personal growth, provides active learning experiences, enhances student insights into individual, group, and organizational behavior, and introduces students to counseling approaches and the rehabilitation issues that affect service delivery. Delivered on a distance basis, these experiences will combine applied instruction by faculty with supervised practicum experiences in off campus settings, either at the student’s place of employment (when appropriate) or in designated rehabilitation settings.

Second, all students will be required to undertake a 600 hour supervised internship in a rehabilitation setting. Students undertaking supervised employment in Rehabilitation Counseling settings may, with Program approval, utilize these locales for their internship experiences. Students not so employed shall be assisted in locating placements in appropriate, supervised rehabilitation settings.

Admission to the Program

Individuals applying to the program should already hold a bachelor’s degree from a regionally accredited college or university, preferably in a related area such as psychology, social work, special education, sociology, nursing, and related disciplines, however all disciplines are accepted. To be considered for admission, an overall grade point average of 2.7 on a 4.0 scale for all college credit is required. Provisional admission may be offered to applicants with a GPA of less than 2.7. Such applications will be reviewed on an individual basis. Graduate Record Examination (GRE) or Millers Analogies Test (M.A.T.) scores are NOT required for entry into the MRC program. Prior work or volunteer experience in human service settings is considered a valuable attribute for applicant’s, but is not mandatory. Students may transfer up to 9 credit hours, if applicable, with program approval. Persons with disabilities are strongly encouraged to apply.

Application Process

The MRC Program has a rolling admission policy, however, students applying for the Fall semester must submit an application by June 1 and those applying for Spring semester must submit an application by October 1.

Students will submit a completed application form, transcripts, a letter from the applicant outlining their rationale for applying to the program, 2 letters of reference, and a resume. Qualified candidates will be contacted for an interview. It is the applicant’s responsibility to assure that all supporting documentation
is received by the Admissions Department. Application materials and detailed information on application procedures and admission criteria can be accessed via the Texas Tech University Health Sciences Center, School of Allied Health Sciences’ web site at www.ttuhsc.edu/merlin. Applications for non-degree seeking students wishing to participate in selected MRC courses are accepted up to three weeks prior to the start of the semester.

**Rehabilitation Counseling Curriculum**

### CORE COURSEWORK

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHRC 5301</td>
<td>Professional Orientation and Ethical Practice 3</td>
</tr>
<tr>
<td>AHRC 5302</td>
<td>Counseling Theories 3</td>
</tr>
<tr>
<td>AHRC 5303</td>
<td>Medical Aspects of Disability 3</td>
</tr>
<tr>
<td>AHRC 5304</td>
<td>Employment Development &amp; Career Services 3</td>
</tr>
<tr>
<td>AHRC 5305</td>
<td>Case Management 3</td>
</tr>
<tr>
<td>AHRC 5306</td>
<td>Psycho-Social Aspects of Disability 3</td>
</tr>
<tr>
<td>AHRC 5307</td>
<td>Diversity Along the Lifespan 3</td>
</tr>
<tr>
<td>AHRC 5308</td>
<td>Research Methodologies &amp; Interpretation of Research Findings 3</td>
</tr>
<tr>
<td>AHRC 5309</td>
<td>Group Counseling Theory and Practice 3</td>
</tr>
<tr>
<td>AHRC 5311</td>
<td>Micro Counseling Skills Practice 3</td>
</tr>
<tr>
<td>AHRC 5321</td>
<td>Assessment from a Rehabilitation Perspective 3</td>
</tr>
<tr>
<td>AHRC 5342</td>
<td>Addictions 3</td>
</tr>
</tbody>
</table>

**Total Hours = 36**

### PRACTICAL EXPERIENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHRC 5312</td>
<td>Practicum 3</td>
</tr>
<tr>
<td>AHRC 5313</td>
<td>Internship I 3</td>
</tr>
<tr>
<td>AHRC 5314</td>
<td>Internship II 3</td>
</tr>
<tr>
<td>AHRC 5315</td>
<td>Internship III 3</td>
</tr>
</tbody>
</table>

**Total Hours = 12**

### ELECTIVES*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHRC 5310</td>
<td>Special Topics 3</td>
</tr>
</tbody>
</table>

*Three (3) credit hours are required, additional elective credits are optional.*
**Certification**

Upon completion of the MRC program, students will possess the competencies and experiences necessary to take the national certification examinations, and if successful, be accredited as a Certified Rehabilitation Counselor (CRC).

**Course Descriptions**

**AHRC 5301 Professional Orientation and Ethical Practice (3:3:3:0:0)**
Introduction to the history and philosophy of rehabilitation, and the legislative and policy background underpinning the modern delivery of rehabilitation counseling services. Exploration of the organizational structure of current rehabilitation counseling services, and the legal and ethical standards that guide them are emphasized. Discussion of societal issues, trends, and developments in rehabilitation, and their impact upon consumer review, choice, and personal responsibility. ISBN: 978-1-4164-0495-8

**AHRC 5302 Counseling Theories (3:3:3:0:0)** Introduction to the principles of behavior, personality, and human development. Exploration of individual, group, and family counseling theories and practices as they apply to persons with disabilities. ISBN: 10-0495102083

**AHRC 5303 Medical Aspects of Disability (3:3:3:0:0)** Introduction to the medical aspects and implications of disability. Review of medical terminology, functional limitations, medical treatment and vocational implications as they apply to rehabilitation counseling. The identification of appropriate medical intervention resources is discussed. ISBN: 978-0826127839

**AHRC 5304 Employment Development and Career Services (3:3:3:0:0)**
The theories, roles and techniques in the development of employment of persons with disabilities are explored in depth. From a career perspective, topic areas include job development, placement, work-site modifications, assistive technology, and work place supports.

**AHRC 5305 Case Management (3:3:3:0:0)** Review of the case management process, including case finding, service coordination, and client advocacy. Discussion of the planning process to maximize personal independence, and the role of the rehabilitation counseling process in the identification and use of community resources. The role of computer technology in case load management, functional assessment, job matching, etc. Emphasis is placed on the rehabilitation counseling professional as part of an interdisciplinary team. The role, functions, and utilization of other professionals, particularly rehabilitation professionals such as occupational therapists, physical therapists, communication disorders specialists, etc, will be explored. ISBN-10: 049500488X; ISBN-13: 9780495004882

**AHRC 5306 Psycho-Social Aspects of Disability (3:3:3:0:0)** Exploration of the psychological and social aspects of disability, with particular emphasis on
the impact of the disability experience from the perspective of the rehabilitation counseling services consumer. The implications of each disorder on the client’s personal, social and occupational functioning will be addressed. Special attention is given to psychological disorders on treatment planning, counseling and rehabilitation. ISBN: 978-1-4164-0238-1; ISBN-13: 978-1-4164-0372-2

**AHRC 5307 Diversity Along the Lifespan (3:3:0:0)** An introduction to issues of human growth and development through a diversity perspective. Exploring the impacts of diversity and cultural mores as they impact the roles individuals inhabit across their lifespan.

**AHRC 5308 Research Methodologies and Interpretation of Research Findings (3:3:0:0)** Exploration of current trends in research in rehabilitation and related fields. Basic research design, methodologies, analysis, and interpretation will be reviewed. A discussion of the applications of research methodologies, findings, and interpretations in guiding and evaluating rehabilitation counseling practice (e.g. - choosing interventions, planning assessments, evaluating results, etc.) is also included. ISBN: 10-053452348X

**AHRC 5309 Group Counseling Theory and Practice (3:3:0:0)** This course is designed to prepare counselors to become knowledgeable and skillful in using theoretical constructs of group counseling with individuals with disabilities. Attention is given to theories of counseling, elements of leadership in group counseling, healthy and dysfunctional behaviors, culturally diverse perspectives, and legal and ethical issues. ISBN: 10-0495600768

**AHRC 5310 Special Topics (3:3:0:0)** Specialized seminars or courses in specific areas of rehabilitation counseling as identified by faculty, students, or the community. No textbook is required.

**AHRC 5311 Micro Counseling Skills Practice (3:3:0:0)** Exploration, development, and practice of the micro-skills deemed essential building blocks of counseling. Training allows for observed development and peer practice in a laboratory setting prior to implementation with public patrons. ISBN: 13: 978-0-495-60123-4

**AHRC 5312 Practicum (3:3:0:0)** Supervised rehabilitation counseling practicum fostering personal growth, skills development, and insights into the rehabilitation counseling process and issues that affect service delivery. Includes both in-class and on-site experiences in settings that facilitate the development of basic rehabilitation counseling and practice skills. This course may be repeated if the 100 hour requirement is not met. Completion of this course is a prerequisite for the internship phase of the program. ISBN: 13: 978-0-495-60123-4
AHRC 5313/5314/5315 Internship I/II/III (3:3:3:0:0) An immersion experience of supervised practice within a rehabilitation counseling services setting. Students will serve as a rehabilitation professional under the supervision of a fully qualified practitioner. Mandatory group supervision by faculty in an online setting. Requires 600 hours of supervised clinical practice throughout the three internship courses. No textbook is required.

AHRC 5321 Assessment from a Rehabilitation Perspective (3:3:3:0:0) Focusing on both the tasks of vocational and mental health assessment, this course will touch on models of psychosocial readiness to engage in the rehabilitation process. A comprehensive study of commonly used vocational assessment tools as well as the newly published DSM-V, often called the 'bible' of mental health diagnostics.

AHRC 5342 Addictions (3:3:3:0:0) A thorough review of addictions including models of addiction, assessment, treatment, and interactions between addiction and rehabilitation services. Issues of prevalence, culture, and political interactions are discussed. ISBN: 978-0-13-705778-8

AHRC 5380 Distance Education: Essentials for Success (3:3:3:0:0) Instructor Approval Required. This course is designed to help the student address common pitfalls in graduate education. Content areas included: online computer skills, communication, group work, time management, expectations for professional and academic conduct, review of MRC policy, test taking skills, and information on learning styles. The goal of this course is to better prepare students for success in online graduate courses. No textbook is required.

AHRC 5381 Writing at a Master’s level (3:3:3:0:0) Instructor Approval Required. This course is designed to address the changes to academic writing that may have occurred since the student was last in school and better prepare students for the requirements of academic writing at the graduate level of education. This is an in-depth course on all areas of writing skills that will be used in an on-line graduate program. Content areas include: grammar, types of academic papers, source selection and evaluation, outlines and organization of papers, writing skills, APA standards, MS word tutorials, using library services, editing and critical evaluation of papers and journals, overview of different writing styles (formal/informal/web/technical), and proofreading. ISBN: 1-4338-2562-6

AHRC 6000 Internship Completion (V1-5) A variable credit course used for completion of core required internship hours after AHRC 5416/5417 have been completed. No text required.
FACULTY DIRECTORY
School of Allied Health Sciences Faculty

ALIFF, Michelle, Assistant Professor of Rehabilitation Counseling, 2007; B.A., University of Arizona, 2001; M.R.C., Texas Tech University Health Sciences Center, 2005.


ARMSTRONG, Mark, Assistant Professor of Physical Therapy, 2010; B.S., Thomas Jefferson University, 1987; M.S., Troy State University, 1991; D.P.T., Creighton University, 2005.

BENNETT, Katie, Assistant Professor in Clinical Laboratory Science and Molecular Pathology, 2009; B.S., West Texas A&M University, 2000; Ph.D. Texas Tech University Health Sciences Center, 2009.

BURGESS, Nathan, Assistant Professor of Physical Therapy, 2009; B.S., Wayland Baptist University, 2001; M.P.T., Texas Tech University Health Sciences Center, 2004.

BOGSCHUTZ, Renee, Assistant Professor of Speech, Language, and Hearing Sciences, 2001; B.A., Eastern New Mexico University, 1993; M.S., Eastern New Mexico University, 1995; Ph.D., University of Iowa, 2000.

BRISIMEE, Jean-Michel, Associate Professor of Physical Therapy, 1997; B.S., Catholic University of Louvain, Belgium, 1982; M.S., Texas Tech University, 1996; Sc.D., Texas Tech University Health Sciences Center, 2003.

BROOKS, Toby J., Assistant Professor of Athletic Training, 2009; B.S., Southern Illinois University, 1998; M.S., University of Arizona, 2000; Ph.D., University of Arizona, 2002.

BUTLER, Tina M., Assistant Professor and Clinical Coordinator of Physician Assistant Studies; B.A., Texas Tech University, 1994; B.S. Physician Assistant Studies, UT Southwestern Medical Center at Dallas, 1998; M.P.A.S., University of Nebraska Medical Center, 2007.

CARR, Heather, Clinical Instructor of Speech, Language, and Hearing Sciences, 2012; Bachelor of Science Degree in Speech, Language, and Hearing Sciences, Texas Tech University Health Sciences Center, 2004; Master’s Degree in Speech-Language Pathology, Texas Tech University Health Sciences Center, 2006.

CHESTNUTT, Jacqueline, Clinical Education Coordinator in Clinical Laboratory Science and Molecular Pathology, 2002; B.S., Texas Tech University Health Sciences Center, 1997; M.S.M.P, Texas Tech University Health Sciences Center, 2011.
COOPER, Jason P., Assistant Professor and Clinical Coordinator, Physician Assistant Studies, 2011; M.P.A.S., Texas Tech University Health Sciences Center, 2006.

COPPOLA, M. Nicholas., Program Director and Associate Professor of Clinical Practice Management, 2007; B.Sc., Christ College, Liverpool University, England, (hon), 1986; B.A., State University of New York, Potsdam, 1987; M.S.A., Central Michigan University, 1995; M.H.A., Baylor University, 1997; Ph.D., Medical College of Virginia Campus, Virginia Commonwealth University, 2003.

CORWIN, Melinda D., Associate Professor of Speech, Language, and Hearing Sciences, 2009; Program Director of Speech, Language, and Hearing Sciences, 2013; B.S., Texas Tech University, 1987; M.S., Texas Tech University, 1989; Ph.D., Texas Tech University, 2006.

DALTON, Jacquelyn, Assistant Professor of Rehabilitation Counseling, 2011; B.A. Mississippi State University, 1992: M. Ed., Delta State University, 1996; Ph.D., University of Wisconsin, 2007.

DAME, Mark, Assistant Professor of Clinical Services Management, 2013; B.A., Indiana University, 1984; M.H.A., Indiana University, 1993.

DENDY, Douglas, Assistant Professor of Physical Therapy, 2010; M.P.T., Texas Tech University Health Sciences Center, 1998.

DEMBOWSKI, James, Associate Professor of Speech, Language, and Hearing Sciences, 2004; B.S., Northwestern University, 1975; M.S., University of Texas at Dallas, 1988; Ph.D., University of Wisconsin-Madison, 1998.

DOMENECH, Manuel, Regional Dean of Odessa, 2005; Associate Professor and Assistant Program Director of Physical Therapy, 2004; B.S. Physical Therapy University of Kansas, 1976; M.S. Virginia Commonwealth, 1982; Ed.D. Oklahoma State University, 1985; D.P.T. MGH Institute for Health Professions, 2008.

FRANCIS, Conrad, Assistant Professor of Clinical Practice Management, 2012; B. Sc., University of the West Indies, 1989; PMBA., Florida Institute of Technology, 2000; DBA., Nova Southeastern University, 2005.

GEDDIE, Matthew, Assistant Professor of Occupational Therapy, 2003; B.S., Texas Tech University Health Sciences Center, 1994; M.B.A., Wayland Baptist University, 2002; Ph.D, Texas Tech University, 2011.

GILBERT, Kerry, Associate Professor, 2009, and Program Director of Physical Therapy, 2004; B.S., University of Texas, 1993; M.P.T., Texas Tech University
Health Sciences Center, 1997; Sc.D., Texas Tech University Health Sciences Center, 2004.

GRANADOS, Sarai, Clinical Instructor of Speech, Language, and Hearing Sciences, 2011, Bachelor of Science in Communication Disorders, Texas Tech University Health Sciences Center, 2002; Master of Science in Speech, Language & Hearing Sciences, Texas Tech University Health Sciences Center, 2004.

GUSTAFSON, Tori J., Associate Professor of Speech, Language, and Hearing Sciences, 2008; B.S., Texas Tech University, 1990; M.S., Texas Tech University, 1992; Au.D., Central Michigan University, 2003.

HALL, Brittany, Clinical Instructor of Speech, Language, and Hearing Sciences, 2008; B.S. Texas Tech University Health Sciences Center, 2003; M.S. Texas Tech University Health Sciences Center, 2005.

HAMILTON, Lynne A., Assistant Professor of Clinical Laboratory Science and Molecular Pathology, 2003; B.S., Texas Tech University, 1983; MT (ASCP), 1983; M.S., Texas Tech University, 1996; Ph.D., Texas Tech University, 2002.

HENDRIX, Ericka, Assistant Professor and Program Director of Molecular Pathology, 2004; B.S., Texas Tech University, 1997; M.S., Texas Tech University Health Sciences Center, 2003.

HICKS, Candace Bourland, Associate Professor of Speech, Language, and Hearing Sciences and Program Director of Audiology, 2001; B.S.E., Arkansas State University, 1992; M.S., Purdue University, 1995; Ph.D., Vanderbilt University, 2000.

HOOTEN, Michael, Regional Dean of Amarillo and Assistant Professor of Clinical Services Management, 1999; B.S., Texas Tech University, 1981; M.H.A., Baylor University, 1990; Ed.D., Texas Tech University, 2004.

HOOPER, Troy L., Assistant Professor of Athletic Training, 2007; B.S., Angelo State University, 1996; M.P.T., Texas Tech University Health Sciences Center, 2001.

HOUSE, Morgan, E., Assistant Professor of Clinical Services Management, 2005; B.S. Wayland Baptist University, 2002; M.B.A., Wayland Baptist University, 2003.

HUBBARD, Joel D., Associate Professor of Clinical Laboratory Science and Molecular Pathology, 1990; B.S., Texas Tech University, 1976; M.T. (ASCP), Baptist Memorial Hospital (Dallas), 1977; Ph.D., Texas Tech University Health Sciences Center, 1986.

HUNT, Sharon, Assistant Professor of Clinical Practice Management, 2012; B.B.A., Texas Tech University, 1988; M.B.A., Wayland Baptist University, 2002.
JACKSON, John, Assistant Professor of Occupational Therapy, 2003; B.S., Medical College of Georgia, 1986; M.A., Texas Woman’s University, 1998; Ed.D, Texas Tech University, 2011.

JAMES, C. Roger, Professor of Rehabilitation Sciences; and Director of the Center for Rehabilitation Research, 2004; and Program Director of Ph.D. in Rehabilitation Sciences, 2009; B.S., Southwest Missouri State University, 1988; M.S., University of Oregon, 1991; Ph.D., University of Oregon, 1996.

JANKOWSKI, James E., Assistant Professor and Clinical Coordinator of Physician Assistant Studies, 2004; B.S., Southwest Texas State University, 1991; M.Ed., Southwest State University, 2000; M.P.A.S., Texas Tech University Health Sciences Center, 2006.

KELLER, Michael, J., Assistant Dean for Learning Technologies, 2012; Chair, Department of Clinical Administration and Rehabilitation Counseling, 2012; B.S., West Texas State University, 1979; B.S.N., West Texas State University, 1981; M.B.A., Wayland Baptist University, 1987; M.S. (Strategy), United States Army War College, 2011.

KOUL, Rajinder K., Associate Dean, Chair and Professor of Speech, Language, and Hearing Sciences, 1994; B.Sc., University of Mysore, 1984; M.Sc., University of Mysore, 1986; Ph.D., Purdue University, 1994.

KROLL, Tobias A., Assistant Professor of Speech, Language, and Hearing Sciences, 2012; M.A. University of Miinster, Germany, 2007; Ph.D candidate, University of Louisiana at Lafayette.

KUMAR, Neeraj, Assistant Professor of Physical Therapy, 2008; B.S., Manipal Academy of Higher Education, 1996; M.S., Guru Nanak Dev University, 1998; Ph.D., State University of New York-Buffalo, 2009.

LARSEN, Hal S., Associate Dean, Chair, Department of Laboratory Science and Primary Care, 1987; B.S., Brigham Young University, 1970; M.S., 1973; M.T. (ASCP), Utah Valley Hospital, 1974; CLS (NCA), 1984; Ph.D., University of Nebraska Medical Center, 1980.

LEE, Sue Ann, Assistant Professor of Speech, Language, and Hearing Sciences, 2010; B.A. in Special Education, Ewha Women’s University, 1990; M.A. in Special Education, Ewha Women’s University, 1992; M.A. in Speech & Hearing Sciences, The Ohio State University, 1998; Ph.D. in Communication Sciences & Disorders, The University of Texas at Austin, 2004.

LEWIS, Nancy, Assistant Professor of Physical Therapy, 2010; B.S., Tarleton State University, 1973; B.S.P.T., University of Texas Medical Branch, 1975; Sc.D., Texas Tech University Health Sciences Center, 2008.

LOHMAN, Chelsea, Assistant Professor of Athletic Training, 2012; B.S., Arizona State University, 2005; M.A.T. Texas Tech University Health Sciences Center, 2008.


OWEN, Jamie, Clinical Instructor of Speech, Language, and Hearing Sciences, 2011; B.S. in Communication Disorders, Texas Tech University Health Sciences Center, 2001; M.S. in Speech, Language & Hearing Sciences, Texas Tech University Health Sciences Center, 2003.

PANASCI, Kathryn, Assistant Professor of Physical Therapy, 2011; B.S., Northeastern University, 2003; M.P.T., Northeastern University, 2004; D.P.T., Texas Tech University Health Sciences Center, 2011.

PASCHALL, D. Dwayne, Associate Professor of Speech, Language, and Hearing Sciences, 1996; B.A., Baylor University, 1989; M.S., University of Texas-Dallas, 1992; Ph.D., University of Texas-Dallas, 1995.

PASUPATHY, Rubini, Assistant Professor of Clinical Practice Management, 2003; B.A., Texas Tech University, 1998; M.B.A., Texas Tech University, 2003; Ph.D., Texas Tech University, 2010.

PENDERGRASS, Timothy, Assistant Professor of Physical Therapy, 2011, B.S., University of North Texas, 1998; M.S., Texas Tech University, 2002; M.P.T., Texas Tech University Health Sciences Center, 2006.

PERRY, Carolyn, Assistant Professor of Speech, Language, and Hearing Sciences, 2004; B.S., Texas Tech University, 1991; M.S., Texas Tech University, 1993.

POSTERARO, Robert H., Assistant Professor of Clinical Practice Management, 2009; B.S., Fordham College, 1969; M.D., Yale University School of Medicine, 1973; M.B.I., Oregon Health & Science University, 2005.

POTTER-BRUNET, Joan, Assistant Professor of Physical Therapy, 1999; B.S., University of Texas Southwest Medical Center, 1991; M.S., West Texas A&M University, 2002; D.P.T., A T Still University, Arizona, 2010.

REDMAN, Wade Program Director and Assistant Professor of Clinical Laboratory Science; B.S., Texas Tech University Health Sciences Center, 1999; MT (ASCP), 2004; M.B.A., 2007.
REEL, Leigh Ann, Assistant Professor of Speech, Language, and Hearing Sciences, 2009; B.B.S., Hardin-Simmons University; Au.D., Texas Tech University Health Sciences Center, 2005; Ph.D., Texas Tech University Health Sciences Center, 2009.

RICE-SPEARMAN, Lori, Associate Dean for Outcomes & Assessment, 2012; B.S. Texas Tech University Health Sciences Center, 1986; M.T. (ASCP), 1986; M.S., Texas Tech University, 1991; Ph.D., Texas Tech University, 2010.

SANCIBRIAN, Cheryl L., Professor of Speech, Language, and Hearing Sciences and Program Director of Speech-Language Pathology, 1993; B.S., Texas Tech University, 1976; M.S., Texas Tech University, 1978.


SAWYER, Barbara G., Professor of Molecular Pathology and Clinical Laboratory Science, 1993; B.A., Stephen F. Austin State University, 1974; B.S., University of Texas Southwestern Medical Center, 1977; MT (ASCP), 1977; Ph.D., University of Texas Southwestern Medical Center, 1988; CLSp (Molecular Biology), 2001.

SAWYER, Steven F., Professor and Chair, Department of Rehabilitation Sciences, and Associate Dean for Faculty Development, B.S., University of California at Irvine, 1980; Ph.D., University of California at San Diego, 1988; M.P.T., Texas Tech University Health Sciences Center, 1997.

SCHROEDER, Dave, Assistant Professor of Rehabilitation Counseling, 2011; B.A., Michigan State University, 1982; M.A, Michigan State University, 2003; Ph.D., Michigan State University, 2012.

SECHRIST, Dawndra A., Assistant Professor and Program Director of Occupational Therapy, 2001; B.S., Texas Tech University, 1992; B.S., Texas Tech University Health Sciences Center, 1994; M.A., Texas Woman’s University, 2001; Ph.D., Texas Tech University, 2006.

SIZER, Phillip S., Program Director of Doctor of Science Program in Physical Therapy, 2002; Professor of Physical Therapy, 1990; B.S., University of Texas Medical Branch, 1985; M.S., Texas Tech University, 1994, Ph.D., Texas Tech University, 2002.

SPEARS, Evans, Associate Professor and Program Director of Rehabilitation Counseling, 2002; B.A. Coe College, 1991; M.A., University of Iowa, 1994; Ph.D. University of Arizona, 2003.

STEADMAN, Natalie D., Assistant Professor of Athletic Training, 2005; B.S., Texas Tech University, 1990; B.S. P.T., Texas Tech University Health Sciences Center, 1992; M.A.T., Texas Tech University Health Sciences Center, 2002.
STEWART, Brooke, Laboratory Manager and Faculty Associate in Clinical Laboratory Science and Molecular Pathology, 2011; B.S., Clinical Laboratory Science, Texas Tech University Health Sciences Center, 2005; M.S., Molecular Pathology, Texas Tech University Health Sciences Center, 2006.

STICKLEY, Lois A., Associate Professor, Program Director of Doctor of Physical Therapy Pathway, and Assistant Program Director of Physical Therapy, 1996; B.S., Texas Woman's University, 1982; M.S., Texas Woman's University, 1987; Ph.D., Texas Tech University, 2002.

TAYLOR, LesLee, Associate Professor of Athletic Training, 2009, and Program Director of Athletic Training, 2000; B.S., University of Kansas, 1993; M.S. University of Arizona, 1995; Ph.D., Texas Tech University, 2001.

TAYLOR, Michael A., Associate Professor and Clinical Coordinator of Physician Assistant Studies, 2004; B.S., University of Oklahoma Health Science Center, 1982; M.P.A.S., University of Nebraska Medical Center, 1997.

TIONGCO, Cindi, Assistant Professor of Occupational Therapy, 2008; B.S.O.T., Texas Tech University Health Sciences Center, 2002; M.O.T., Texas Tech University Health Sciences Center, 2002.

WELLS, Meredith, Clinical Instructor of Speech, Language, and Hearing Sciences, 2012; Bachelor of Science, Hardin Simmons, 2007; Master of Science, Texas Tech University Health Sciences Center, 2009.

WHISNER, Sandra, Assistant Professor of Occupational Therapy, 2003; B.B.A., Texas Tech University, 1992; B.S., Texas Tech University Health Sciences Center, 1997; M.A., Texas Woman's University, 2003.

WILKINSON, William J., Assistant Professor of Physical Therapy, 2006. B.S., Texas State University, 1984; M.S., University of North Texas, 1988; M.D., University of Texas Health Sciences Center (San Antonio), 1994.

ZIMMERMAN, Renee, Assistant Professor of Speech, Language, and Hearing Sciences, 2012; B.S., Texas Tech University Health Sciences Center, 2005; Au.D., Texas Tech University Health Sciences Center, 2009.

ZUPANCIC, Steven, Assistant Professor of Speech, Language, and Hearing Sciences, 2006; B.S., Eastern New Mexico University, 1999; Au.D., Texas Tech Health Sciences Center, 2003; Ph.D., Texas Tech University Health Sciences Center, 2007.
Subject Index

Accreditation, Texas Tech University Health Sciences Center, 18
Address Change, 29
Administration, 14
Admission Checklist, 33
Admission Policy, 31
Admissions, Applying for, 23
Admissions, Qualify for, 25
Advanced Placement, 23
Alcohol/Drug Education and Prevention, 27
Applicant Pool, 32
Applicants, 31
Athletic Training program, 111
Audiology program, 57

Calendar, Academic, 8
Clinic Administration and Rehabilitation Counseling department, 179
Clinical Laboratory Science program, 75
Clinical Laboratory Science Lubbock Campus program, 77
Clinical Laboratory Science Second Degree program, 84
Clinical Laboratory Science Certificate program, 85
Clinical Practice Management program, 189
Clinical Services Management program, 181
Communication Sciences and Disorders program, 67
Core Curriculum Requirement, 19
Course Drop Limit, 20
Credit by Examination for Prerequisite Courses, 23
Credit for Core Requirements taken at another Institution, 21
Credit for Educational Courses completed in the Armed Forces, 21
Criminal Background Check, 26

Deadlines, Application, 24
Dean's Message, 13
Debts, Student, 29
Disabilities, Students with, 29

Faculty, 203
Financial Aid, 34

Graduate, Intent to, 30
Healthcare, Student, 27
Honor Code, Student, 26

Immunizations, 25
Insurance Coverage, Student, 27
International Students, 32
Interprofessional Education, 30
Laboratory Sciences and Primary Care department, 73
Leave of Absence, 27
Liability, Student, 27

Milestones, School of Allied Health Sciences, 16
Mission, School of Allied Health Sciences, 15
Mission, Texas Tech University Health Sciences Center, 15
Molecular Pathology program, 91

Occupational Therapy Master program, 123
Organizations, Student, 26
Organizational Philosophy, School of Allied Health Sciences, 16

Physical Therapy Doctor program, 139
Physical Therapy Doctor of Science program, 161
Physical Therapy Transitional Doctor Pathway, 155
Physician Assistant Studies program, 97
Prerequisite Course Credits, 31

Records, Student, 29
Readmission, 31
Rehabilitation Counseling program, 195
Rehabilitation Sciences, Ph.D., 173
Rehabilitation Sciences department, 109

Scholarships, 34
Sex Offenders, Registration of Convicted, 28
Speech, Language, and Hearing Sciences department, 41
Speech, Language, and Hearing Sciences program, 45
Speech-Language Pathology program, 51
Students, Expectations of, 26

Tobacco Free Environment, 28
TSI Requirement, 33
Transfer of Credits, 20
Tuition and Fees, 35

Vision, School of Allied Health Sciences, 15
Withdrawal, 29