Course Coordinator: Carolyn R. Mason, PT, PhD  
Email: carolyn.mason@angelo.edu  
Phone: 325-942-2794  
Office: HHS 224 G  
Office Hours: By appointment

Adjunct Instructor: Regina Hartnett, PT, DPT  
Email: ReginaHartnett@shannonhealth.org  
Phone: 325-656-4357  
Office:  
Office Hours: By appointment

Guest Lecturer: Khristina Douglas, CCC-SLP, WTRC

Course Information

Course Description
Students will extend their knowledge of the structure and function of the central and peripheral nervous systems and apply the knowledge within the context of altered structures and function of the nervous system in various neuropathologies common to physical therapy practice.

Course Credits
3 Credits (3 - 0 - 0)

Prerequisite and Co-requisite Courses
Successful completion of previous DPT coursework
Prerequisite Skills

Accessing Internet websites, using ASU Library resources, and proficiency with Microsoft Word and/or PowerPoint are expectations of the course.

Student Learning Outcomes

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Assignment(s) or activity(ies) validating outcome achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recapitulate the principles and the time sequence of neurodevelopment. <strong>7C</strong></td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>Differentiate the sequelae of impaired development during various critical periods of the neural systems. <strong>7C</strong></td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>Describe the genetic and epigenetic influences on CNS development.</td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>Identify the major mechanisms of neuropathology and specific diseases/conditions to which they apply. <strong>7A, 7C</strong></td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>Examine the positive and negative effects of pharmacologic agents on the nervous system based on their sites of interaction. <strong>7A</strong></td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>For each pathology/condition covered, categorize impairments using the ICF model. <strong>7D21</strong></td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>For each pathology/condition covered, characterize the natural course of the pathology/conditions as it relates to the provision of physical therapy services.</td>
<td>Cases Review questions Exam</td>
</tr>
<tr>
<td>For each pathology/condition covered, identify relevant complications and precautions.</td>
<td>Cases Review questions Exam</td>
</tr>
</tbody>
</table>

Numbers following the objectives refer to the CAPTE Standard 7 Curriculum

Course Delivery

This is a face-to-face course with learning resources and supplemental materials posted in Blackboard.
Required Texts and Materials


Recommended Texts and Materials


Technology Requirements

To successfully complete this course, students need to be able to access Blackboard.

Communication

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

**Written communication via email:** All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below.
<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent/Points of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Exams (3 at 20% each)</td>
<td>60</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30</td>
</tr>
<tr>
<td>Questions Assignments (2 x 5%)</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

All written exams in PT 7325 are comprehensive and will be computer administered. The exams will consist of multiple-choice questions. Each exam will be given during class in the classroom and require the student to have the appropriate technology and software. Students are expected to take the exams at the scheduled times. Make-up exams are at the discretion of the instructor. **Mastery on each exam is not required but the student must achieve a minimal competency level of 80% by the end of the semester. No retakes of exams will be given.** Failure to achieve a minimal competency level of 80% after the completion of the first three written exams will result in the initiation of an Academic Probation Tracking Form and related actions including notification of your advisor and of the Academic Committee.

Failure to achieve a minimal competency level of 80% by the end of the semester will result in Academic Probation and the forwarding of the student records to the Academic Committee for consideration of options including possible Program dismissal.

**Grading System**

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

- A = 90 - 100 percent
- B = 80 - 89 percent
- C = 70 - 79 percent
- F < 70 percent

**Teaching Strategies**

Students are expected to be “active learners.” It is a basic assumption of the instructor that students will be involved (**beyond the materials and lectures presented in the course**) discovering, processing, and applying the course information using peer-review journal articles,
researching additional information and examples on the Internet, and discussing course material and clinical experiences with their peers.

**Assignment and Activity Descriptions**

Students will be required to write two sets of multiple choice questions following the criteria posted on Blackboard. The first set will be due by midnight of February 27. The second set will be due by midnight May 23.

**Assignment Submission**

All assignments MUST be submitted through the Assignments link in the Blackboard site. This is for grading, documenting, and archiving purposes. Issues with technology use arise from time to time. If a technology issue does occur regarding an assignment submission, email me at cmason@angelo.edu and attach a copy of what you are trying to submit. Please contact the IT Service Center at (325) 942-2911 or go to your Technology Support tab to report the issue. This lets your faculty know you completed the assignment on time and are just having problems with the online submission feature in Blackboard. Once the problem is resolved, submit your assignment through the appropriate link. This process will document the problem and establish a timeline. Be sure to keep a backup of all work.

**Late Work or Missed Assignments Policy**

Due dates and times for assignments are posted. Failure to submit your assignments on the assigned date will result in a five percent deduction for each day after the posted deadline. No papers or postings will be accepted more than one week past the assigned due date.

**General Policies Related to This Course**

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](https://example.com/angelostudenthandbook)¹
- [Angelo State University Catalog](https://example.com/angeloCAT)²
- DPT Program Student Handbook located in the DPT Program Blackboard page.
**Student Responsibility and Attendance**

Please remember that it is extremely disruptive and unprofessional to be late for class, come to lab unprepared or be absent from class/lab, especially when group activities are scheduled.

1. **Absences**

   a. Students will abide by the absence policy delineated in each course instructor’s syllabus.
   b. In case of absence, the student is responsible for obtaining the skills and knowledge necessary to meet required mastery level. Faculty members are not obligated to remediate students in these circumstances.
   c. Absences without prior notification will not be tolerated during any field or clinical experience. This may result in immediate removal from the clinical experience.
   d. Student must notify their instructor(s) via email regarding their absence.

2. **Tardiness**

   Tardiness is a disruption to the instructor and the students. A student is considered tardy when he/she arrives for class after the instructor has begun class activities. It reflects poor professional behavior and will not be tolerated. Students will abide by the tardiness policy delineated in each course instructor’s syllabus.

   **Repeated tardiness or absences (>2 occurrences combined or mixed) will result in the initiation of a Disciplinary Tracking Form.**

   Attendance and promptness to classes, meetings, and future work obligations are considered professional behaviors. As this department is preparing potential professionals in the area of physical therapy, it is part of our expectation that student presence and timeliness will be held in highest regard. Tardiness is a disruption to the instructor and fellow students. A student is considered tardy if he/she arrives for class after the instructor has begun class activities. Please see the following related to implications from excessive lateness or absences without a reasonable excuse:

   a. First offense- verbal warning
   b. Second offense- second verbal warning, initiation of Disciplinary Tracking Form
   c. Third offense- 1% off final course grade
   d. 1% off final course grade for each additional unexcused tardy or absence

Per the student handbook, 2 or more occurrences combined or mixed will result in the initiation of a Disciplinary Tracking Form. If a student has an unexcused absence during integrations it may lead to the removal of that student from that clinical environment. It is the responsibility of the student to contact the clinical site and give notice if they are ill, or have transportation issues. If the student is unable to attend class, it is the student’s responsibility to email the
course instructor(s) of the class directly. This notification should be made prior to commencement of said class.

Continued issues with tardiness/attendance across all courses will result in disciplinary probation and will be referred to the PT faculty for consideration of options, including program dismissal. The PT faculty is not oblivious to doctor’s appointments and other potential hazards and emergencies in daily life. Simply taking responsibility to notify the office or the professor if issues arise is considered professional behavior. Please do not rely on a classmate or other form of notification, as these have proven unreliable in years past.

**Cell Phone.** Students must silence cell and place them out of sight during class. Permission may be granted, at the instructor's discretion, to have a cell phone out during class. Students seeking permission to have cell phones out during class must do so prior to the start of class. The first offense includes a verbal warning that will be documented in the behavioral tracking sheet. The second offense includes the initiation of a disciplinary tracking form. The third offense will result in the convening of a disciplinary committee to decide upon further disciplinary action.

**Academic Integrity**

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Health and Human Services adheres to the university’s [Statement of Academic Integrity](#).

**Accommodations for Students with Disabilities**

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For
more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu  
Houston Harte University Center, Room 112

**Incomplete Grade Policy**

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

**Plagiarism**

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the ASU Writing Center.

**Student Absence for Observance of Religious Holy Days**

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

**Copyright Policy**

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of
course readings in printed or electronic form without written permission from the copyright holders or publishers.

**Syllabus Changes**
The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student’s responsibility to look for such communications about the course on a daily basis.

**Title IX at Angelo State University**
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

Online: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
Face to face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.boone@angelo.edu

*Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).*
For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix).

## Course Schedule

**Class times are 1:30 – 3:00 pm unless indicated.**

<table>
<thead>
<tr>
<th>Week/Date</th>
<th>Topic</th>
<th>Readings*/ Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1: 1/14</td>
<td>Headaches I</td>
<td>G&amp;F, Chapter 37 Blumenfeld pp. 139-141</td>
</tr>
<tr>
<td>Week 1: 1/16</td>
<td>Headaches II</td>
<td>G&amp;F, Chapter 37 Blumenfeld pp. 139-141</td>
</tr>
<tr>
<td>Week 2: 1/21</td>
<td>No class – see 1/30</td>
<td></td>
</tr>
<tr>
<td>Week 2: 1/23</td>
<td>Epilepsy, part 1</td>
<td>G&amp;F, Chapter 36 Ciconne, Chapter 9</td>
</tr>
<tr>
<td>Week 3: 1/28</td>
<td>Epilepsy, part 2</td>
<td>G&amp;F, Chapter 36 Ciconne, Chapter 9</td>
</tr>
<tr>
<td>Week 3: 1/30 1:30 – 4:30 pm</td>
<td>TBI with Dr. Hartnett</td>
<td></td>
</tr>
<tr>
<td>Week 4: 2/04</td>
<td>No class – See 2/06</td>
<td></td>
</tr>
<tr>
<td>Week 4: 2/06 1:30 – 3:00 pm 3:00 – 4:30 pm</td>
<td>Brain Stimulation with Dr. Mason TBI with Dr. Hartnett</td>
<td></td>
</tr>
<tr>
<td>Week 5: 2/11</td>
<td>Cases</td>
<td></td>
</tr>
<tr>
<td>Week 5: 2/13</td>
<td>Exam I</td>
<td>Bring technology to class.</td>
</tr>
<tr>
<td>Week 6: 2/18</td>
<td>CNS Neoplasms I</td>
<td>G&amp;F, Chapter 30</td>
</tr>
<tr>
<td>Week 6: 2/20</td>
<td>CNS Neoplasm II</td>
<td>G&amp;F, Chapter 30 Cysts article posted on Blackboard</td>
</tr>
<tr>
<td>Week/Date</td>
<td>Topic</td>
<td>Readings*/Assignments</td>
</tr>
<tr>
<td>---------------------</td>
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<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Week 7: 2/25</td>
<td>Neurophysiology of bowel, bladder, and sexual function</td>
<td>Blumenfeld, pp. 294-297</td>
</tr>
<tr>
<td>Week 7: 2/27</td>
<td>Vestibular Pathology</td>
<td>G&amp;F, Chapter 38&lt;br&gt;OSF, Chapter 21&lt;br&gt;Review Questions Set 1 Due by Midnight</td>
</tr>
<tr>
<td>Week 8: 3/03</td>
<td>Cases and Review</td>
<td></td>
</tr>
<tr>
<td>Week 8: 3/05</td>
<td>Exam 2</td>
<td>Bring technology</td>
</tr>
<tr>
<td>Spring break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 9: 3/17</td>
<td>Neuroembryology I</td>
<td>TBA</td>
</tr>
<tr>
<td>Week 9: 3/19</td>
<td>Neuroembryology II</td>
<td>TBA</td>
</tr>
<tr>
<td>Week 10: 3/24</td>
<td>No class – See 3/26</td>
<td></td>
</tr>
<tr>
<td>Week 10: 3/26 1:30 – 4:30 pm</td>
<td>Acute Stroke Management and Bowel and Bladder Management with Dr. Harnett</td>
<td></td>
</tr>
<tr>
<td>Week 11: 3/31</td>
<td>Genetic and Developmental Disorders with Neurologic Components I</td>
<td>G&amp;F, Chapters 23 &amp; 35</td>
</tr>
<tr>
<td>Week 11: 4/02 1:30 – 4:30 pm</td>
<td>Swallowing disorders and Communication Impairments with Ms. Douglas</td>
<td>OSF, Chapter 28</td>
</tr>
<tr>
<td>Week 12: 4/07 1:30 – 2:30 pm</td>
<td>No PT 7325 Neuropathology II&lt;br&gt;PT 7235 Field Trip at 3:00 pm</td>
<td></td>
</tr>
<tr>
<td>Week 12: 4/09</td>
<td>Genetic and Developmental Disorders with Neurologic Components II</td>
<td>G&amp;F, Chapters 23 &amp; 35</td>
</tr>
<tr>
<td>Week 13: 4/14</td>
<td>Exam 3</td>
<td>Bring technology</td>
</tr>
<tr>
<td>Week 13: 4/16</td>
<td>Infectious Disorders of the CNS</td>
<td>G&amp;F Chapter 29</td>
</tr>
<tr>
<td>Week/Date</td>
<td>Topic</td>
<td>Readings*/ Assignments</td>
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<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>Week 14: 4/21</td>
<td>Dementia</td>
<td>Blumenfeld, p. 927-936 G&amp;F, p. 1411-1419</td>
</tr>
<tr>
<td>Week 14: 4/23</td>
<td>Spasticity with Dr. Hartnett</td>
<td>Review Question Set 2 due by Midnight.</td>
</tr>
<tr>
<td>1:30 – 4:30 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 15: 4/28</td>
<td>Cases and Review</td>
<td></td>
</tr>
<tr>
<td>Week 15: 4/30</td>
<td>No class – see 4/23</td>
<td></td>
</tr>
<tr>
<td>Week 16: 5/05</td>
<td>Final Exam</td>
<td>Bring computer/tablet</td>
</tr>
</tbody>
</table>

*Other readings may be assigned.

**Student Evaluation of Faculty and Course**

Students in all programs are given the opportunity to evaluate their courses and the faculty who teach them. Evaluations are most helpful when they are honest, fair, constructive, and pertinent to the class, clinical experience, or course. Faculty value student evaluations, and use student suggestions in making modifications in courses, labs and clinical experiences. Angelo State University uses the IDEA (Individual Development and Educational Assessment) system administered through Kansas State University for all course evaluations. The Office of Institutional Research and Assessment administers IDEA for the entire university, online and has established a policy whereby students can complete course evaluations free from coercion.

**End of Syllabus**

1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. [https://www.angelo.edu/dept/writing_center/academic_honesty.php](https://www.angelo.edu/dept/writing_center/academic_honesty.php)
8. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)