

Physical Therapist Assistant Mississippi Curriculum Framework

Physical Therapist Assistant- CIP: 51.0806 (Physical Therapy Technician/Assistant)

2018



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The Office of Curriculum and Instruction (OCI) was founded in 2013 under the Division of Workforce, Career, and Technical Education at the Mississippi Community College Board (MCCB). The office is funded through a partnership with The Mississippi Department of Education (MDE), who serves as Mississippi's fiscal agent for state and federal Career and Technical Education (CTE) Funds. The OCI is tasked with developing statewide CTE curriculum, programming, and professional development designed to meet the local and statewide economic demand.

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ADOPTION OF NATIONAL CERTIFICATION STANDARDS

The Commission on Accreditation in Physical Therapy Education (CAPTE) is an accrediting agency that is nationally recognized by the United States Department of Education (USDE) and the Council for Higher Education Accreditation (CHEA). CAPTE grants specialized accreditation status to qualified entry-level education programs for physical therapists and physical therapist assistants.

The Commission on Accreditation in Physical Therapy Education (CAPTE):

- is the only accreditation agency recognized by the United States Department of Education (USDE) and the Council for Higher Education Accreditation (CHEA) to accredit entry-level physical therapist and physical therapist assistant education programs;
- has been recognized as an independent agency since 1977 and has been the only recognized agency to accredit physical therapy (PT) programs since 1983;
- currently accredits over 200 physical therapist education programs and over 300 physical therapist assistant (PTA) education programs in the US and one physical therapist education program in Scotland;
- has 31 members from a variety of constituencies: PT and PTA clinicians, PT and PTA educators, basic scientists, higher education administrators, and the public;
- maintains a cadre of more than 350 volunteers who are trained to conduct on-site reviews of physical therapy programs;
- conducts on-site visits to approximately 80 programs annually;
- reviews information from approximately one-third of all accredited programs at each meeting;
- is an active member of the Association of Specialized and Programmatic Accreditors (ASPA) and subscribes to the ASPA Code of Good Practice.

For more than 25 years, The Federation of State Boards of Physical Therapy (FSBPT) has been paving the way for public protection. If you view their history timeline, you will see what they have accomplished and the people who have made it happen. You'll find everything from the birth of the Federation in the early 80s to our 25th anniversary celebration and beyond. FSBPT strives to live by a clearly defined mission and vision. Their mission conveys the direction of their organization and our vision inspires them to achieve a common purpose.

Mission: To protect the public by providing service and leadership that promote safe and competent physical therapy practice.

Vision: To achieve a high level of public protection through a strong foundation of laws and regulatory standards in physical therapy, effective tools and systems to assess entry-level and continuing competence, and public and professional awareness of resources for public protection.

INDUSTRY JOB PROJECTION DATA

The **Physical Therapy Assistant** occupations require an education level of an associate degree. There is expected to be a 38.84% increase in occupational demand at the regional level and 38.84% increase at the state level. The median annual income for this occupation is \$49,316.80 at the state level. A summary of occupational data from the State Workforce Investment Board Data Center is displayed below:

Table 1: Education Level

Program Occupations	Education Level
Physical Therapist Assistants	Associate Degree

Table 2: Occupational Overview

	Region	State	United States
2010 Occupational Jobs	842	842	79471
2024 Occupational Jobs	1169	1169	92960
Total Change	327	327	13489
Total % Change	38.84%	38.84%	16.97%
2014 Median Hourly Earnings	\$23.71	\$23.71	\$26.16
2024 Median Annual Earnings	\$49,316.80	\$49,316.80	\$54,412.80
Annual Openings	32	32	1348

Table 3: Occupational Breakdown

Description	2010 Jobs	2020 Jobs	Annual Openings	2010 Hourly Earnings	2010 Annual Earnings 2,080 Work Hours
Physical Therapist Assistants	842	1169	32	\$23.71	\$49,316.80
TOTAL	842	1169	32	\$23.71	\$49,316.80

Table 4: Occupational Change

Description	Regional Change	Regional % Change	State % Change	National % Change
Physical Therapist Assistants	327	38.84%	38.84%	16.97%

ARTICULATION

There is currently no secondary program in Physical Therapy Assistant to articulate to this program.

TECHNICAL SKILLS ASSESSMENT

Colleges should report the following for students who complete the program with a career certificate, technical certificate, or an Associate of Applied Science Degrees for technical skills attainment. To use the approved Alternate Assessment for the following programs of study, colleges should provide a Letter of Notification to the Director of Career Technical Education at the MS Community College Board. Please see the following link for further instructions: <http://www.mccb.edu/wkfEdu/CTDefault.aspx>.

CIP Code	Program of Study	
51.0806	Physical Therapist Assistant	
Level	Standard Assessment	Alternate Assessment
Career		
Level	Standard Assessment	Alternate Assessment
Technical/AAS	National assembly of Physical Therapist Assistants (NAPTE) National Exam	

ONLINE AND BLENDED LEARNING OPPORTUNITIES

Course content includes lecture and laboratory semester credit hours. Faculty members are encouraged to present lecture- related content to students in an online or blended learning environment. Training related to online and blended learning will be available to faculty members through the MS Community College Board.

INSTRUCTIONAL STRATEGIES

Instructional strategies for faculty members implementing the curriculum can be found through the Office of Curriculum and Instruction's professional development.

ASSESSMENT STRATEGIES

The Office of Curriculum and Instruction's professional development offer assessment strategies to faculty members implementing the curriculum. Additionally, standards were included in course content when appropriate.

RESEARCH ABSTRACT

In the fall of 2017, the Office of Curriculum and Instruction (OCI) met with the different industry members who made up the advisory committees for the Physical Therapy Assistant program. An industry questionnaire was used to gather feedback concerning the trends and needs, both current and future, of their field. Program faculty, administrators, and industry members were consulted regarding industry workforce needs and trends.

Industry advisory team members from the college involved with this program were asked to give input related to changes to be made to the curriculum framework. Specific comments related to soft skills needed in this program include reading and writing skills, positive work ethic, professionalism, good oral and written communication skills, critical thinking skills, team player, organizational skills, and time management. Stated occupation-specific skills include knowing how to communicate with the patient, bending, squatting, lifting 90-100 lbs, being able to take and read vital signs, and understanding procedures.

A curriculum writing meeting was convened in October 2017 and attended by faculty, administrators, and industry members.

REVISION HISTORY:

2010, Research and Curriculum Unit, Mississippi State University

2018 Mississippi Community College Board

PROGRAM DESCRIPTION

The Physical Therapist Assistant (PTA) program, is a 2-yr program of study that prepares a physical therapist assistant to perform interventions under the direction and supervision of physical therapists (PTs) in an ethical, legal, safe, and effective manner. These professionals enhance the delivery of physical therapy services by performing selected data collection skills and providing selected interventions, assisting the PT with data collection, communicating with other members of the health-care delivery team, interacting with members of the patient's family and caregivers, and working cooperatively with other health care providers. Physical therapist assistants participate with the PT in teaching other health-care providers, documenting patient interventions, and providing psychosocial support for patients and their families and caregivers with recognition of individual, cultural, and economic differences.

This program prepares the graduate to practice in schools, hospitals, clinics, home health, and other health-care facilities as a member of the health-care team. In Mississippi, physical therapist assistants are licensed by the Mississippi State Board of Physical Therapy. This curriculum conforms to standards and elements as published by the Commission on Accreditation for Physical Therapy Education. Industry standards are based on the *Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs*.

SUGGESTED COURSE SEQUENCE

Required Courses

			SCH Breakdown				Certification Information
Course Number	Course Name	Semester Credit Hours	Lecture	Lab	clinical	Total Contact Hours	Certification Name
PTA 1123	Fundamental Concepts of Physical Therapy	3	3	0	0		National Physical Therapy Examination (NPTE) for Physical Therapist Assistants
PTA 1213	Fundamental Skills for Physical Therapist Assistants	3	2	2	0		
PTA 1224	Therapeutic Modalities	4	3	2	0		
PTA 1314	Kinesiology	4	3	2	0		
PTA 1324	Therapeutic Exercise and Rehabilitation I	4	3	2	0		
PTA 2234	Electrotherapy	4	3	2	0		
PTA 2334	Therapeutic Exercise and Rehabilitation II	4	3	2	0		
PTA 2413	Clinical Education I	3	0	0	9	135	
PTA 2424	Clinical Education II	4	0	0	12	180	
PTA 2434	Clinical Education III	4	0	0	12	180	
PTA2444	Clinical Education IV	4	0	0	12	180	
PTA 2513	Medical Conditions and Related Pathology	3	3	0	0		
PTA 2523	Physical Therapy Seminar	3	3	0	0		
	Electives	0-6					
	TOTAL	47-53	26	12	42	1245	

Physical Therapist Assistant Courses

			SCH Breakdown			Contact Hour Breakdown		Certification Information
Course Number	Course Name	Semester Credit Hours	Lecture	Lab	Total Contact Hours	Lecture	Lab	Certification Name
PTA 1111	Health Care Experience I	1						
PTA 1123	Fundamental Concepts of Physical Therapy	3						
PTA 1132	Practicum I	2						
PTA 1143	Practicum II							
PTA 1151	Health Care Experience II	1						
PTA 1213	Fundamental Skills for Physical Therapist Assistants	3						
PTA 1224	Therapeutic Modalities	4						
PTA 1314	Kinesiology	4						
PTA 1324	Therapeutic Exercise and Rehabilitation I	4						
PTA 1911	Seminar I	1						
PTA 1921	Seminar II	1						
PTA 2111	Clinical Skills	1						
PTA 2234	Electrotherapy	4						
PTA 2334	Therapeutic Exercise and Rehabilitation II	4						
PTA 2413	Clinical Education I	3						
PTA 2424	Clinical Education II	4						
PTA 2434	Clinical Education III	4						
PTA 2444	Clinical Education IV	4						
PTA 2513	Medical Conditions and Related Pathology	3						
PTA 2523	Physical Therapy Seminar	3						
PTA 2911	Seminar III	1						

General Education Core Courses – Physical Therapist Assistant

To receive the Associate of Applied Science Degree, a student must complete all of the required coursework found in the Career Certificate option, Technical Certificate option and a minimum of 15 semester hours of General Education Core. The courses in the general education core may be spaced out over the entire length of the program so that students complete some academic and Career Technical courses each semester or provided primarily within the last semester. Each community college will specify the actual courses that are required to meet the general education core requirements for the Associate of Applied Science Degree at their college. The Southern Association of Colleges and Schools (SACS) Commission on Colleges Standard 2.7.3 from the Principles of Accreditation: Foundations for Quality Enhancement ¹ describes the general education core.

Section 2.7.3 In each undergraduate degree program, the institution requires the successful completion of a general education component at the collegiate level that (1) is substantial component of each undergraduate degree, (2) ensures breadth of knowledge, and (3) is based on a coherent rationale. For degree completion in associate programs, the component constitutes a minimum of 15 semester hours or the equivalent. These credit hours are to be drawn from and include at least one course from the following areas: humanities/fine arts, social/behavioral sciences, and natural science/mathematics. The courses do not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession.

Standards and Required Elements

The Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs are outlined by the Commission on Accreditation in Physical Therapy Education (CAPTE).²

Standard 7 – Required Elements

7A – The physical therapist assistant program curriculum requires a complement of academic general education coursework appropriate to the degree offered that includes written communication, and biological, physical, behavior, and social sciences which prepare students for coursework in the technical program sequence. General education courses are courses not designated as applied general education coursework by the institution or program.

7B – The physical therapist assistant program curriculum includes content and learning experiences about the cardiovascular, endocrine and metabolic, gastrointestinal, genital and reproductive, hematologic, hepatic and biliary, immune, integumentary, lymphatic, musculoskeletal, nervous, respiratory, and renal and urologic systems; and the medical and surgical conditions across the lifespan commonly seen by physical therapist assistant.

¹

Southern Association of Colleges and Schools Commission on Colleges. (2012). *The principles of accreditation: Foundations for quality enhancement*. Retrieved from <http://www.sacscoc.org/pdf/2012PrinciplesOfAccreditation.pdf>

²

Standards and Required Elements for Accreditation of Physical Therapist assistant Education Programs (2016)

General Education Courses

			SCH Breakdown			Contact Hour Breakdown		Certification Information
Course Number	Course Name	Semester Credit Hours	Lecture	Lab	Total Contact Hours	Lecture	Lab	Certification Name
	Humanities/Fine Arts ¹	3						
	Written Communication ²	3						
	Social/Behavioral Sciences ¹	3						
BIO 2514	Anatomy and Physiology I ^{1,2} Lecture and Laboratory	4						
BIO 2524	Anatomy and Physiology II ^{1,2} Lecture and Laboratory	4						
	Academic electives	1						
	TOTAL	15						

PHYSICAL THERAPIST ASSISTANT COURSES

Course Number and Name: **PTA 1111** **Health Care Experience I**

Description: This course is designed to provide the student with observation/overview of physical therapy activities. The student has the opportunity to gain knowledge of the health-care delivery system and physical therapy's place within that system.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
1	0	3	45
1	1	0	15

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Describe roles of various personnel within the physical therapy department
 - a. Discuss the role of the Physical Therapist
 - b. Discuss the role of the Physical Therapist Assistant
 - c. Discuss the role of the Physical Therapy Aide
2. Describe the health-care delivery system
 - a. Identify the role of other members of the health-care team
 - b. Identify how medical treatments are documented

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1:** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D5** Perform duties in a manner consistent with APTA's Values Based Behaviors for the Physical Therapist Assistant.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.

- 7D7** Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.
- 7D13** Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.
- 7D14** Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.
- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.
- 7D25** Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Course Number and Name: **PTA 1123 Fundamental Concepts of Physical Therapy**

Description: This course is an introduction to the field of physical therapy including role orientation, professional organizational structure, legal and ethical implications, and legislation. Historical patterns in the development of the profession will be explored and medical terminology introduced.

Hour Breakdown:	Semester Credit Hours	Lecture	Lab	Contact Hours
	3	3	0	45

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Demonstrate knowledge of medical terminology.
 - a. Pronounce medical terms properly
 - b. Spell medical terms as root words, prefixes, and suffixes
 - c. Separate medical terms as root words, prefixes, and suffixes
 - d. Utilize common medical abbreviations and symbols
 - e. Utilize correct medical terms in writing medical records
2. Demonstrate knowledge of desired psychosocial support for patients and their families
 - a. Interpret their reaction to illness and disability
 - b. Explore possible reasons for patients' and families' reactions to illness or disability
3. Demonstrate knowledge of the history of physical therapy
 - a. Identify significant individuals in the development of the profession
 - b. Identify significant events and dates in the development of the profession.
4. Demonstrate understanding of legal and ethical responsibilities for health-care providers.
 - a. Demonstrate knowledge of standards of physical therapy
 - b. Demonstrate knowledge of standards of ethical conduct for the PTA and Guide for conduct of the Affiliate Member
 - c. Demonstrate knowledge of applicable state and federal laws, including HIPAA
5. Demonstrate knowledge of the health-care delivery system
 - a. Integrate knowledge of social, economic, and demographic influences on health-care delivery
 - b. Integrate knowledge of legislative influences on health-care delivery
6. Demonstrate knowledge of reimbursement mechanisms
 - a. Discuss basic factors involved in health-care cost
 - b. Explain selected terms related to reimbursement cost
 - c. Discuss importance of fiscal considerations for physical therapy providers and consumers
7. Demonstrate knowledge of medical records
 - a. Identify various components of medical records
 - b. Discuss the importance of accurate medical records
 - c. Demonstrate appreciation for the ethical and legal implications of medical records

8. Analyze current issues related to physical therapy
 - a. Explore media references related to current problems and issues in health care
 - b. Identify differing points of view related to current issues
9. Demonstrate knowledge of history, structure, and function
 - a. Identify the organizational structure of the APTA
 - b. Define the purpose and functions of the APTA
10. Summarize the roles of members of the health-care team including physical therapists, physical therapist assistants, and aides
 - a. Demonstrate understanding of levels of authority and responsibility
 - b. Correlate the importance of effective representation of a PTA's roles within its scope of practice)
11. Demonstrate an awareness of the importance of appropriate interpersonal interaction in providing health care
 - a. Give examples of possible relationships that exist in various settings
 - b. Discuss the influence of cultural diversity in the workplace

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D5** Perform duties in a manner consistent with APTA's Values Based Behaviors for the Physical Therapist Assistant.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** **Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.**
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D9** Apply current knowledge, theory, and clinical judgement while considering the patient/client perspective and the environment, based on the plan of care established by the physical therapist.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.

7D11 Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D12 Effectively educate others using teaching methods that are commensurate with the needs of patient, care giver or healthcare personnel.

7D13 Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.

7D14 Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

7D16 Use the International Classification of Functioning, Disability and Health (ICF) to describe a patient's/ client's impairments, activity and participation limitations.

Plan of Care

7D17 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

7D18 Review health records (e.g., lab values, diagnostic tests, specialty reports, narrative, consults, and physical therapy documentation) prior to carrying out the PT plan of care.

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and

work environments; recognize level of functional status; administer standardized questionnaires to patients and others.

- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D28 Participate in the provision of patient- centered inter professional collaborative care

Practical Management

7D31 Describe accurate and timely information for billing and payment purposes.

Course Number and Name: **PTA 1132 PTA Practicum I**

Description: This course is designed to provide the student with observational time with participation in selected physical therapy activities.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
2	0	6	90

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Participate in selected patient focused activities.
 - a. Report examples of activities performed.
 - b. Differentiate between the interventions performed by a PTA and the tasks performed by a PT Aide.
2. Identify the organizational structure of the PT department.
 - a. Identify specific policies and procedures from the policy and procedure manual.
 - b. Discuss the line of authority in the PT setting.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D5** Perform duties in a manner consistent with APTA Values Based Behaviors for the Physical Therapist Assistant.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** **Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.**
- 7D8** Identify respect, and act with consideration for patients’/clients’ differences, values, preferences, and expressed needs in all work related activities.
- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

Test and Measures

- 7D24** Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

Course Number and Name: **PTA 1143 PTA Practicum II**

Description: This course is designed to provide the student with extended observation time with participation in selected physical therapy and /or related activities.

Hour Breakdown:	Semester Credit Hours	Lecture	Clinical	Contact Hours
	3	0	9	135

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Describe rehabilitative services other than PT
 - a. Identify other rehabilitative services
 - b. Compare the interventions provided by PT versus the treatment provided by other rehabilitative services.
2. Participate in basic research on a specified topic
 - a. Follow APTA and other appropriate ethical guidelines for obtaining patient information
 - b. Demonstrate the ability to compile information gathered during the research process

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D5** Perform duties in a manner consistent with APTA's Values Based Behaviors for the Physical Therapist Assistant.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** **Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.**
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D13 Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.

7D14 Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

7D18 Review health records (e.g., lab values, diagnostic tests, specialty reports, narrative, consults, and physical therapy documentation) prior to carrying out the PT plan of care.

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management, and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D29 Participate in performance improvement activities (quality assurance).

Practical Management

7D30 Describe aspects of organizational planning and operation of the physical therapy service.

7D31 Describe accurate and timely information for billing and payment purposes.

Course Number and Name: **PTA 1151** **Heath Care Experience II**

Description: This course is designed to provide the student with observation/overview with limited participation in physical therapy activities The student has the opportunity to gain additional knowledge of the health-care delivery system and physical therapy's place within that system.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
1	0	3	45
1	1	0	15

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Differentiate among the roles of various personnel within the physical therapy department
 - a. Interpret the role of the Physical Therapist
 - b. Interpret the role of the Physical Therapist Assistant
 - c. Interpret the role of the Physical Therapy Aide
2. Describe services provided in the physical therapy setting
 - a. Identify common physical therapy diagnosis
 - b. Identify interventions provided.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D1: Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.

7D2 Report to appropriate authorities suspected cases of abuse of vulnerable populations.

7D3 Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .

7D4 Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.

7D5 Perform duties in a manner consistent with APTA's Values Based Behaviors for the Physical Therapist Assistant.

7D6 Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.

7D7 Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.

7D8 Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.

7D9 Apply current knowledge, theory, and clinical judgement while considering the patient/client perspective and the environment, based on the plan of care established by the physical therapist.

- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.
- 7D13** Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.
- 7D14** Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.
- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

Plan of Care

- 7D18** Review health records (e.g., lab values, diagnostic tests, specialty reports, narrative, consults, and physical therapy documentation) prior to carrying out the PT plan of care.
- 7D20** Report any changes in patient/client status or progress to the supervising physical therapist.
- 7D22** Contribute to the discontinuation of episode of care planning and follow-up processes as directed by the supervising physical therapist.

Intervention

- 7D23** Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:
- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 - b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
 - c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
 - d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
 - e. Manual Therapy Techniques: passive range of motion and therapeutic massage
 - f. Motor Function Training (balance, gait, etc.)
 - g. Patient/ Client Education
 - h. Therapeutic Exercise
 - i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

- 7D24** Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:
- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
 - b. Anthropometrical Characteristics: measurements of height, weight, length, and width
 - c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
 - d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
 - e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility

- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Practical Management

7D30 Describe aspects of organizational planning and operation of the physical therapy service.

7D31 Describe accurate and timely information for billing and payment purposes.

Course Number and Name: **PTA 1213** **Fundamental Skills for Physical Therapist Assistants**

Description: This course provides knowledge of topics utilized in the practice of physical therapy. Topics covered will include positioning, draping, transfers, body mechanics, gait training, and standard precautions. Vital signs, first aid, and emergency techniques will also be covered.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
3	2	2	60

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Determine proper body mechanics
 - a. Demonstrate proper procedure for lifting objects from various heights
 - b. Discuss musculoskeletal and biomechanical principles of body mechanics
2. Perform proper transfer techniques when handling patients
 - a. Demonstrate method for dependent transfer from bed to bed
 - b. Demonstrate procedure for a sliding board transfer
 - c. Demonstrate procedure for Hoyer lift
 - d. Demonstrate method for a standing pivot transfer
3. Instruct patient in correct utilizations of assistive devices for gait
 - a. Demonstrate method for adjusting assistive devices for proper fit
 - b. Discuss indications for assistive devices
 - c. Demonstrate procedure for coming to stand with assistive devices
 - d. Discuss determinations for gait patterns
 - e. Demonstrate proper procedure for ambulation in the parallel bars
 - f. Demonstrate proper procedure for ambulation with a walker
 - g. Demonstrate proper procedure for ambulation with a cane
 - h. Demonstrate proper procedure for ambulation with crutches
 - i. Demonstrate procedure for stairs with assistive devices
 - j. Demonstrate procedure for door negotiation with assistive devices
 - k. Demonstrate procedure for instruction in falling techniques
4. Utilize appropriate safety measures for patient treatment
 - a. Demonstrate control of the environment to assure patient safety
 - b. Incorporate appropriate safety guidelines in the performance of patient interventions
5. Demonstrate selected bed mobility activities
 - a. Demonstrate procedure for rolling from supine to sidelying.
 - b. Demonstrate procedure for rolling supine to prone
 - c. Demonstrate procedure for coming to sit
6. Demonstrate specific positioning techniques
 - a. Demonstrate proper procedure for supine positioning
 - b. Demonstrate proper procedure for prone positioning
 - c. Discuss accessories and equipment necessary for proper positioning

7. Demonstrate proper use of wheelchair
 - a. Demonstrate procedure for attaching and removing the accessories to a wheelchair
 - b. Demonstrate procedure for wheelchair propulsion
 - c. Demonstrate procedure for curb and doorway negotiation in a wheelchair
8. Summarize OSHA standards for standard precautions
 - a. Discuss the meaning of OSHA standards
 - b. Discuss the epidemiology of bloodborne diseases
 - c. Discuss the signs and symptoms of bloodborne pathogens
 - d. Discuss the transmission of bloodborne pathogens
 - e. Discuss the tasks that will put the health care professional at risk
 - f. Discuss various methods of reducing risk and exposure to bloodborne pathogens and their limitations
 - g. Discuss the types, use, location, removal, handling, and disposal of personal protective equipment
 - h. Discuss considerations for selection of personal protective equipment
 - i. Discuss the efficacy, safety, method of administration, and benefits of the Hepatitis B vaccine
9. Demonstrate knowledge of patient assessment skills
 - a. Assess patient environment for architectural barriers and modification needs
 - b. Assess patient's functional activities status
 - c. Assess functional status of patient's gait
 - d. Assess vital signs
 - e. Demonstrate proper documentation
10. Utilize appropriate first aid techniques for selected emergency situations
 - a. Assess patient status to determine appropriate course of action in a given situation
 - b. Identify responsibilities in the determined course of action

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D9** Apply current knowledge, theory, and clinical judgement while considering the patient/client perspective and the environment, based on the plan of care established by the physical therapist.
- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

Plan of Care

- 7D18** Review health records (e.g., lab values, diagnostic tests, specialty reports, narrative, consults, and physical therapy documentation) prior to carrying out the PT plan of care.
- 7D19** Monitor and adjust interventions in the plan of care in response to patient. Client status and clinical indications.

7D20 Report any changes in patient/client status or progress to the supervising physical therapist.

7D21 Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- b. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life.
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension, response to exercise.
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

7D26 Respond effectively to patient/ client and environmental emergencies that commonly occur in the clinical setting.

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 1224 Therapeutic Modalities**

Description: This course is an introduction to the theory and practical application of hydrotherapy, thermotherapy, cryotherapy, light therapy, and mechanotherapy. Emphasis will be placed on the technique of application, indications, and contraindications of modalities.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
4	3	2	75

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Demonstrate knowledge of principles and application of selected therapeutic modalities.
 - a. Demonstrate proper procedure for utilization of hot packs
 - b. Demonstrate proper procedure for utilization of paraffin
 - c. Demonstrate proper procedure for utilization of diathermy
 - d. Demonstrate proper procedure for cryotherapy
 - e. Demonstrate proper procedure for utilization of ultraviolet.
 - f. Demonstrate proper procedure for utilization of massage
 - g. Demonstrate proper procedure for utilization of ultrasound
 - h. Demonstrate proper procedure for hydrotherapy and wound care
 - i. Demonstrate proper procedure for mechanical traction
 - j. Demonstrate procedure for utilization of compression devices and garments
 - k. Demonstrate knowledge of views of pain and pain management
 - l. Demonstrate proper procedure for utilization of use of light
2. Perform selected assessment and measurement techniques
 - a. Assess patient's pain level
 - b. Assess segmental length, girth, and volume for patient
 - c. Demonstrate proper procedure for skin and sensation assessment

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- f. Motor Function Training (balance, gait, etc.)
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- b. Anthropometrical Characteristics: measurements of height, weight, length, and width.
- e. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 1314** **Kinesiology**

Description: This course studies individual muscles and muscle function, biomechanical principles of joint motion, gait analysis, goniometry, and postural assessment.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
4	3	2	75

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Identify biomechanical principles relating to the human body
 - a. Describe the forces acting on bodies in terms of equilibrium and movement
 - b. Describe the principles of joint motion
2. Identify principles and characteristics of muscle
 - a. Define selected terms related to muscle contraction
 - b. Classify muscles according to their interaction in joint movement
3. Demonstrate knowledge of selected joints, and perform related joint activities
 - a. Identify and palpate bony prominence, and trace the muscle and/or tendon that act upon the joint
 - b. Identify the forces of motion that act upon joints
4. Demonstrate knowledge of normal components of gait
 - a. Explain the phases of locomotion.
 - b. Differentiate among possible causes of gait deviation
5. Differentiate between normal posture and postural deviations
 - a. Demonstrate components of normal posture.
 - b. Identify postural deviations and causes
6. Determine accurate range of motion measurements using goniometry
 - a. Identify the anatomical position, planes, and axes as points of reference
 - b. Palpate bony and soft tissue anatomical landmarks at each joint of the extremities and in the spine, trunk, and head
 - c. Perform accurate goniometric measurements at each joint of the extremities, spine, and trunk.
 - d. Document goniometry findings using correct terminology and format
7. Assess accurately the strength of various muscle groups
 - a. Describe the basic mechanics of a muscle contraction
 - b. Describe the process of grading the strength of a muscle contraction
 - c. Identify the origin, insertion, action, and nerve supply of the muscles to be tested
 - d. Perform accurate manual muscle strength assessments for the muscles associated with each joint of the extremities, trunk, and head
 - e. Document muscle strength assessments using correct terminology and format

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- f. Motor Function Training (balance, gait, etc.)

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- g. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: PTA 1324 Therapeutic Exercise and Rehabilitation I

Description: This course provides an overview of the biochemical and neurophysiological basis and application of various therapeutic exercises. The basics of therapeutic exercises are correlated with specific conditions. This course focuses on rehabilitation techniques in the treatment of a variety of selected conditions. Specialized exercise procedures are emphasized.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
4	3	2	75

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Perform specific therapeutic exercise treatments
 - a. Implement treatment programs that include PROM, AAROM, AROM, and ARROM exercises
 - b. Implement treatment programs that include isometric, isotonic, and isokinetic exercises
 - c. Implement treatment programs that include wellness and prevention exercises
 - d. Implement treatment programs that include stretching exercises.
2. Explain concepts of therapeutic exercise
 - a. Describe the difference among isotonic, isometric, and isokinetic exercise.
 - b. Describe the overload principle
 - c. Explain how resistance, repetition, set, speed, and arc of motion variables are manipulated to achieve various goals of therapeutic exercise
 - d. Describe the difference between aerobic and anaerobic exercise
 - e. Define strength, endurance, power, and flexibility
 - f. Explain how therapeutic exercise programs are formulated to increase strength, endurance, power, and flexibility
 - g. Define components of peripheral joint mobilization techniques
3. Assess accurately the strength of various muscle groups
 - a. Describe the basic mechanics of a muscle contraction
 - b. Describe the process of grading the strength of a muscle contraction
 - c. Identify the origin, insertion, action, and nerve supply of the muscles to be tested
 - d. Perform accurate manual muscle strength assessments for the muscles associated with each joint of the extremities, trunk, and head
 - e. Document muscle strength assessments using correct terminology and format
4. Implement exercise programs for specific musculoskeletal disorders.
 - a. Implement therapeutic exercise programs designed to treat soft tissue, bony tissue, and postsurgical problems
 - b. Implement therapeutic exercise programs designed to treat the spine, specifically the neck and lower back.
 - c. Implement therapeutic exercise programs designed to treat obstetric patients
 - d. Implement therapeutic exercise programs designed to treat patients with coronary disease
 - e. Implement therapeutic exercise programs designed to treat women's and men's health
5. Perform additional assessment and measurement techniques.

- a. Assess a patient's flexibility and muscle length
 - b. Correlate joint flexibility, goniometry, strength, and muscle length findings to understand the rationale for specific therapeutic exercise programs.
6. Describe the etiology, symptoms, and clinical course of common musculoskeletal conditions.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Patient/ Client Management

7D16 Use the International Classification of Functioning, Disability and Health (ICF) to describe a patient's/ client's impairments, activity and participation limitations.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- h. Therapeutic Exercise

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- g. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 1911** **Seminar I**

Description: This course presents the opportunity for group assembly on a regular basis to work toward achievement of course objectives. Leadership skills, an understanding of group dynamics, community service, interaction with other health education students, and the practice of reading and interpreting professional literature are emphasized. A desire to continue development of knowledge and skills is stressed.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
1	1	0	15

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Describe qualities needed for professional development
 - a. List components of group dynamics
 - b. Describe the importance of being a team player
 - c. Identify different types of community service activities
2. Interpret professional journal articles
 - a. Identify varied sources of scientific and research articles
 - b. Examine appropriate articles from scientific and research journals
 - c. Summarize a scientific or research article using a computer

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D10 Identify basic concepts in professional literature including, but not limited to, validity, reliability, and level of statistical significance.

7D11 Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D14 Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

Interview patients/clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment

7D26 Respond effectively to patient/client and environmental emergencies that commonly occur in the clinical setting.

Participation in Health Care Environment

7D28 Participate in the provision of patient- centered inter professional collaborative care.

Course Number and Name: **PTA 1921** **Seminar II**

Description: This course provides enhanced opportunities for group assembly on a regular basis to work to achieve course objective. Demonstration of leadership skills, an understanding of group dynamics, community service, interaction with other health education students, and practice of reading and interpreting professional literature are further developed. A desire to continue development of knowledge and skills is emphasized.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
1	1	0	15

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Exhibit qualities needed for professional development
 - a. Demonstrate components of group dynamics
 - b. Demonstrate the importance of being a team player
 - c. Participate in different types of community service activities
2. Analyze professional journal articles
 - a. Locate appropriate scientific and research articles
 - b. Analyze appropriate articles from scientific and research journals on assigned topics
 - c. Compare two or more scientific or research articles on the same topic using a computer

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D10 Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.

7D11 Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D14 Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

7D15 Interview patients/clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Test and Measures

7D26 Respond effectively to patient/ client and environmental emergencies that commonly occur in the clinical setting.

Participation in Health Care Environment

7D28 Participate in the provision of patient- centered inter professional collaborative care

Course Number and Name: **PTA 2111** **Clinical Seminar**

Description: This course emphasizes practical application of skills learned in prior class instruction together with skills being learned in therapeutic exercise and rehabilitation. In this course, synthesis of all therapeutic skills will be emphasized as well as sharpening critical thinking skills. Students will be given physical therapy evaluations and plans of care to implement as a treatment plan and will be required to suggest modifications in the plan of care

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
1	1	0	15

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Review the evaluation and interpret the plan of care developed by the PT to achieve short and long term goals and intended outcomes
2. Interview the patient and caregivers to obtain current information related to patient's current level of function and general health status
3. Implement the plan of care established by the PT
4. Identify possible contraindications to implementing treatments within the physical therapist plan of care
5. Identify need to progress patient within the PT plan of care
6. Assess need to communicate with supervising physical therapist and/or physician to provide patient-centered, interprofessional collaborative care
7. Demonstrate the ability to set patients up for the appropriate treatment and follow through in a logical sequence
8. Implement appropriate documentation of treatments including patient response, objective data, subjective data, assessment and plan, adhering to SOAP note format within the PT plan of care
9. Perform appropriate treatments using current knowledge and clinical judgement based on the Physical Therapist's POC using standard protocol and safe practice
10. Establish appropriate home programs including written and verbal instructions, as well as needed demonstrations ensuring patient understanding via return demonstrations
11. Perform appropriate assessments as needed
12. Interact professionally with a culturally diverse population with respect for differences, values, preferences, and expressed needs in work-related activities
13. Provide patient, family, and others with education as needed
14. Recommend contributions to the discontinuation of episode of care to the supervising physical therapist
15. Identify common emergency situations and implement appropriate protocols
16. Develop time management skills in order to treat patients, write notes, set up and clean treatment areas, communicate with and supervise other staff and complete daily records and charges
17. Practice under state and federal laws
18. Practice ethically using the "Standards of Practice for Physical Therapy", the "Standards for Ethical Conduct for the PTA", and the "Guide for Conduct of the Affiliate Member"
19. Display professional clinic demeanor in dress and communication (verbal and nonverbal).
20. Interact effectively in a care plan meeting
21. Recommend appropriate changes in the plan of care to the supervising physical therapist via collaboration in order to improve patient outcomes
22. Recognize signs of abuse in vulnerable populations

23. Create a plan of action to an ethical situation using logical, moral reasoning that coincides with core professional ethics and values. Select evidence based resources to reinforce clinical decisions for progressing the patient within the plan of care established by the PT

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D5** Perform duties in a manner consistent with APT's Values Based Behaviors for the Physical Therapist Assistant.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** Communicate effectively with all stakeholders, including patients/clients, family members, caregivers, practitioners, interprofessional team members, consumers, payers, and policymakers.
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work-related activities.
- 7D9** Apply current knowledge, theory, and clinical judgement while considering the patient/client perspective and the environment, based on the plan of care established by the physical therapist.

Patient/ Client Management

- 7D15** interview patients/clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Intervention

- 7D23** Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:
- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 - b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
 - c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
 - d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
 - e. Manual Therapy Techniques: passive range of motion and therapeutic massage
 - f. Motor Function Training (balance, gait, etc.)
 - g. Patient/ Client Education
 - h. Therapeutic Exercise
 - i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

Course Number and Name: **PTA 2234 Electrotherapy**

Description: This course emphasizes theory and practical application of electrotherapy and other therapeutic procedures. Indications and contradictions of modalities are also discussed.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
4	3	2	75

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Demonstrate knowledge of principles and application of electrotherapeutic modalities
 - a. Demonstrate procedure for utilization of electrical stimulation
 - b. Demonstrate procedure for utilization of TENS
 - c. Demonstrate procedure for utilization of interferential current
 - d. Demonstrate procedure for utilization of biofeedback
 - e. Demonstrate procedure for utilization of iontophoresis
2. Demonstrate knowledge of necessary assessments and desired outcomes of therapeutic interventions.
 - a. Differentiate between pain control theories
 - b. Demonstrate procedure for interventions designed to reduce pain
 - c. Demonstrate procedures for interventions designed to reduce muscle guarding, splinting, and spasms
 - d. Demonstrate procedures for interventions designed to reduce edema
 - e. Demonstrate procedures for interventions designed for strengthening and muscle reeducation
 - f. Demonstrate procedures for interventions designed to affect muscle tone

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 2334 Therapeutic Exercise and Rehabilitation II**

Description: This course presents theory, principles and techniques of therapeutic exercise and rehabilitation for primarily neurological conditions. Methods of functional, motor, and sensory assessment and intervention techniques are included. Principles of prosthetics and orthotics functional training and other techniques are covered.

Hour Breakdown:

Semester Credit Hours	Lecture	Lab	Contact Hours
4	3	2	75

Prerequisite: Instructor approved

Student Learning Outcomes:

1. Identify the components and functions of the central and peripheral nervous systems
 - a. Identify the structure and function of the various components of the CNS
 - b. Identify the structure and function of the various components of the PNS.
2. Implement the use of the developmental sequence in the treatment of neurological disorders
 - a. Describe the developmental sequence.
 - b. Describe the stages of mobility, stability, controlled mobility, and skill in the development of motor control.
 - c. Demonstrate the use of the developmental sequence in the treatment of neurologically involved pediatric patients
 - d. Demonstrate the use of the developmental sequence in the treatment of neurologically involved adult patients
3. Implement specific techniques in the treatment of neurological disorders.
 - a. Demonstrate PNF (proprioceptive neuromuscular facilitation) techniques in the treatment of neurologically involved patients
 - b. Demonstrate NDT (neurological developmental techniques) in the treatment of patients
4. Describe the etiology, symptoms, and clinical course of specific neurological disorders
5. Perform selected patient assessment and treatment activities
 - a. Describe normal pathological reflexes and tone
 - b. Perform therapeutic exercise treatments for each of the diagnoses listed in competency #4
 - c. Demonstrate knowledge in management and teaching of the permanently disabled person including transfers, positioning, gait, mobility aids and activities of daily living
 - d. Perform balance assessment and training
 - e. Perform righting and equilibrium reaction assessment
 - f. Perform sensory assessment
6. Perform patient assessment, and demonstrate therapeutic management of patients utilizing prosthetic and orthotic devices
 - a. Identify orthotic devices commonly used in the treatment of patients
 - b. Identify prosthetic devices commonly used in the treatment of patients with amputations
 - c. Perform appropriate assessments for patients who utilize prosthetic and orthotic devices

- d. Demonstrate appropriate therapeutic intervention for patients who utilize prosthetic and orthotic devices

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D7 Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.

Patient/ Client Management

7D16 Use the International Classification of Functioning, Disability and Health (ICF) to describe a patient's/ client's impairments, activity and participation limitations.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- j. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 2413 Clinical Education I**

Description: This course provides supervised clinical experiences in demonstrating the attributes and applying the skills for which students have been deemed competent for the clinical setting.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
3	0	9	135

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Practice selected skills in a clinical setting
 - a. Practice the knowledge of the following:
 - (1) The rationale and effectiveness of selected physical therapy interventions
 - (2) The Standards of Practice for Physical Therapy, the Standards for Ethical Conduct for the Physical Therapist Assistant, and the Guide for Conduct of the Affiliate Member
 - (3) State and federal laws
 - (4) Ethical principles
 - (5) The scope of their abilities in the delivery of care
 - b. Implement components of a comprehensive treatment plan developed by a Physical Therapist that may include, but is not limited to, use or application of the following:
 - (1) Gait training with assistive devices
 - (2) Transfer training
 - (3) Standard precautions
 - (4) Vital signs
2. Begin to appropriately communicate the patient's status on a timely basis with the supervising Physical Therapist
 - a. Practice verbal and nonverbal communication with the patient, the Physical Therapist, and physical therapist assistants
 - b. Begin documentation of data collection and intervention
 - c. Practice sensitivity to individual and cultural differences in limited aspects of physical therapy services

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.

7D7 Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.

7D8 Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.

Patient/ Client Management

7D15 interview patients/ clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Plan of Care

7D17 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

7D21 Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension, response to exercise)
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: **PTA 2424 Clinical Education II**

Description: This is the first of three culminating clinical education experiences (identified in a Normative Model of PTA Education as the first full-time clinical experience) that provide supervised clinical experiences in demonstrating the attributes and applying the skills that prepare students for entry into the physical therapy profession.

Hour Breakdown:	Semester Credit Hours	Lecture	Clinical	Contact Hours
	4	0	12	180

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Demonstrate selected skills in a clinical setting
 - a. Demonstrate knowledge of the following:
 - 1 The rationale and effectiveness of physical therapy treatment procedures
 - 2 The Standards of Practice for Physical Therapy, the Standards for Ethical Conduct for the Physical Therapist Assistant, and the Guide for Conduct of the Affiliate Member
 - 3 State and federal laws
 - 4 Ethical principles
 - 5 The scope of their abilities in the delivery of care
 - b. With guidance, implement selected interventions of a comprehensive plan of care developed by a Physical Therapist that may include but is not limited to use or application of the following:
 1. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 2. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices
 3. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies
 4. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
 5. Motor Function Training (balance, gait, etc.)
 6. Patient/ Client Education
 7. Therapeutic Exercise
 8. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal
 - c. Practice appropriate data collection skills to assist the supervising physical therapist in monitoring and modifying the plan of care within the knowledge and limits of practice. These techniques identify the patient's status with respect to such things as the following:
 1. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension, response to exercise)
 2. Anthropometrical Characteristics: measurements of height, weight, length, and width
 3. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition

4. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
5. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
6. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
7. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
8. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
9. posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
10. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
11. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
12. Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:
 - a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
 - b. Anthropometrical Characteristics: measurements of height, weight, length, and width
 - c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
 - d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
 - e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
 - f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
 - g. Joint integrity and mobility :detect normal and abnormal joint movement
 - h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
 - i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions

- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
 - k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
 - l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
 - m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
 - n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.
- 13 Recognize the roles and responsibilities of PTAs in a way that reflects an understanding of the following:
- (1) Authority and levels of responsibility
 - (2) Planning and time management skills
 - (3) Policies and procedures
 - (4) Suspected cases of abuse of vulnerable populations
14. Practice appropriate communication of the patient's status on a timely basis with the supervising Physical Therapist.
- a. Practice verbal and nonverbal communication with the patient, the Physical Therapist, and health-care delivery personnel.
 - b. Practice documentation of data collection and intervention.
 - c. Demonstrate sensitivity to individual and cultural differences in limited aspects of physical therapy services.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.

7D7 Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.

7D8 Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.

7D12 Effectively educate others using teaching methods that are commensurate with the needs of patient, care giver or healthcare personnel.

Patient/ Client Management

7D15 interview patients/ clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Plan of Care

7D17 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

7D20 Report any changes in patient/client status or progress to the supervising physical therapist.

7D21 Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility

- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- h. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

Practical Management

7D30 Describe aspects of organizational planning and operation of the physical therapy service.

Course Number and Name: **PTA 2434 Clinical Education III**

Description: This is the second of three culminating clinical education experiences that provide supervised clinical experiences in demonstrating the attributes and applying the skills that prepare students for entry into the Physical Therapy profession.

Hour Breakdown:	Semester Credit Hours	Lecture	Clinical	Contact Hours
	4	0	12	180

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Demonstrate skills in a clinical setting Integrate knowledge of the following:
 1. The rationale and effectiveness of physical therapy treatment procedures
 2. The Standards of Practice for Physical Therapy, the Standards for Ethical Conduct For the Physical Therapist Assistant, and the Guide for Conduct of the Affiliate Member
 3. State and federal laws
 4. Ethical principles
 5. The scope of their abilities in the delivery of care
- b. With guidance, implement selected interventions of a comprehensive plan of care developed by a Physical Therapist that may include but is not limited to use or application of the following:
 1. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 2. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices
 3. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies
 4. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
 5. Motor Function Training (balance, gait, etc.)
 6. Patient/ Client Education
 7. Therapeutic Exercise
 8. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal
- c. Practice appropriate data collection skills to assist the supervising physical therapist in monitoring and modifying the plan of care within the knowledge and limits of practice These techniques identify the patient's status with respect to such things as the following:
 1. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension, response to exercise)
 2. Anthropometrical Characteristics: measurements of height, weight, length, and width
 3. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
 4. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility

5. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
6. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
7. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
8. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
9. posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
10. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
11. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
12. Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:
 - a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
 - b. Anthropometrical Characteristics: measurements of height, weight, length, and width
 - c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
 - d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
 - e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
 - f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
 - g. Joint integrity and mobility :detect normal and abnormal joint movement
 - h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
 - i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
 - j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
 - k. posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.

- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

13 Recognize the roles and responsibilities of PTAs in a way that reflects an understanding of the following:

- a. Authority and levels of responsibility
- b. Planning and time management skills
- c. Policies and procedures
- d. Suspected cases of abuse of vulnerable populations

14. Practice appropriate communication of the patient's status on a timely basis with the supervising Physical Therapist.

- a. Practice verbal and nonverbal communication with the patient, the Physical Therapist, and health-care delivery personnel.
- b. Practice documentation of data collection and intervention.
- c. Demonstrate sensitivity to individual and cultural differences in limited aspects of physical therapy services.

15. Demonstrate appropriate communication of the patient's status on a timely basis with the supervising Physical Therapist.

- a. Demonstrate verbal and nonverbal communication with the patient, the Physical Therapist, and health-care delivery personnel.
- b. Synthesize pertinent information needed for documentation of data collection and intervention.
- c. Demonstrate sensitivity to individual and cultural differences in limited aspects of physical therapy services.
- d. Begin to participate in teaching other health-care providers, patients, and families.
- e. Participate in reporting patient progress in team conferences.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D1 Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management

7D2 Report to appropriate authorities suspected cases of abuse of vulnerable populations.

7D3 Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services.

- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** Communicate effectively with all stakeholders, including patients/clients, family members, caregivers, practitioners, interprofessional team members, consumers, payers, and policymakers.
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.
- 7D12** Effectively educate others using teaching methods that are commensurate with the needs of patient, care giver or healthcare personnel.
- 7D14** Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

- 7D15** interview patients/clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Plan of Care

- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.
- 7D20** Report any changes in patient/client status or progress to the supervising physical therapist.
- 7D21** Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant.
- 7D22** Contribute to the discontinuation of episode of care planning and follow-up processes as directed by the supervising physical therapist.

Intervention

- 7D23** Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:
- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 - b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
 - c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
 - d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life

- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

7D29 Participate in performance improvement activities (quality assurance).

Practical Management

7D30 Describe aspects of organizational planning and operation of the physical therapy service.

7D31 Describe accurate and timely information for billing and payment purposes.

Course Number and Name: **PTA 2444 Clinical Education IV**

Description: This is the third of three culminating clinical education experiences (identified in a Normative Model of PTA Education as the last full-time clinical experience) that provide supervised clinical experiences in demonstrating the attributes and applying the skills that prepare students for entry into the Physical Therapy profession.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
4	0	12	180

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Demonstrate entry-level mastery of skills in a clinical setting
 - a. Demonstrate entry-level mastery of the following:
 - 1 The rationale and effectiveness of physical therapy treatment procedures
 - 2 The Standards of Practice for Physical Therapy, the Standards for Ethical Conduct for the Physical Therapist Assistant, and the Guide for Conduct of the Affiliate Member
 - 3 State and federal laws
 - 4 Ethical principles
 - 5 The scope of their abilities in the delivery of care
 - b. With guidance, implement selected interventions of a comprehensive plan of care developed by a Physical Therapist that may include but is not limited to use or application of the following:
 1. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
 2. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices
 3. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies
 4. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
 5. Motor Function Training (balance, gait, etc.)
 6. Patient/ Client Education
 7. Therapeutic Exercise
 8. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal
 - c. Practice appropriate data collection skills to assist the supervising physical therapist in monitoring and modifying the plan of care within the knowledge and limits of practice These techniques identify the patient's status with respect to such things as the following:
 - 1 Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypotension response to exercise
 - 2 Anthropometrical Characteristics: measurements of height, weight, length, and width
 - 3 Mental Functions: detect changes in a patient's state of arousal, mentation and cognition

- 4 Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- 5 Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- 6 Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- 7 Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- 8 Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- 9 Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- 10 Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- 11 Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- 12 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:
 - a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
 - b. Anthropometrical Characteristics: measurements of height, weight, length, and width
 - c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
 - d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
 - e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
 - f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
 - g. Joint integrity and mobility :detect normal and abnormal joint movement
 - h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
 - i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions

- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

13 Recognize the roles and responsibilities of PTAs in a way that reflects an understanding of the following:

- (1) Authority and levels of responsibility
- (2) Planning and time management skills
- (3) Policies and procedures
- (4) Suspected cases of abuse of vulnerable populations

14. Practice appropriate communication of the patient's status on a timely basis with the supervising Physical Therapist.

- a. Practice verbal and nonverbal communication with the patient, the Physical Therapist, and health-care delivery personnel.
- b. Practice documentation of data collection and intervention.
- c. Demonstrate sensitivity to individual and cultural differences in limited aspects of physical therapy services.

2. Demonstrate entry-level mastery of communication of the patient's status on a timely basis with the supervising Physical Therapist.

- a. Demonstrate verbal and nonverbal communication with the patient, the Physical Therapist, and health-care delivery personnel.
- b. Synthesize pertinent information needed for documentation of data collection and intervention.)
- c. Demonstrate sensitivity to individual and cultural differences in limited aspects of physical therapy services.
- d. Teach other health care providers, patients, and families.
- e. Participate in reporting patient progress in team conferences.

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.
- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.
- 7D12** Effectively educate others using teaching methods that are commensurate with the needs of patient, care giver or healthcare personnel.
- 7D14** Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

- 7D15** Interview patients/ clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

Plan of Care

- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.
- 7D20** Report any changes in patient/client status or progress to the supervising physical therapist.
- 7D21** Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant.
- 7D22** Contribute to the discontinuation of episode of care planning and follow-up processes as directed by the supervising physical therapist.

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility
- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

7D29 Participate in performance improvement activities (quality assurance).

Practical Management

7D30 Describe aspects of organizational planning and operation of the physical therapy service.

7D31 Describe accurate and timely information for billing and payment purposes.

Course Number and Name: **PTA 2513 Medical Conditions and Related Pathology**

Description: This course provides a basic knowledge of selected diseases and conditions encountered in physical therapy practice. Emphasis is on etiology, pathology, and clinical picture of diseases studied. Various physical therapy procedures in each disability are discussed.

Hour Breakdown:	Semester Credit Hours	Lecture	Clinical	Contact Hours
	3	3	0	45

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Demonstrate an introductory knowledge of disease processes, traumatic disorders, and medical conditions that affect various body systems
 - a. Explain the etiological factors and prognoses of selected disease processes and conditions
 - b. List the incidence of various diseases and medical conditions
2. Demonstrate knowledge of common surgical procedures
 - a. Discuss indications and contraindications for various surgical procedures
 - b. List postoperative procedures for various surgical procedures including precautions to be followed
3. Explain and differentiate among diagnostic procedures
 - a. Discuss various tests and procedures utilized in differential diagnosis for various conditions
 - b. Differentiate among various diagnostic procedures performed in physical therapy.
4. Discuss treatment procedures for specific conditions
 - a. Utilize an understanding of the incidence, pathology, and systemology of specific conditions discussed
 - b. Correlate possible psychological and psychosocial implications that are associated with various conditions and treatments

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D1 Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.

7D2 Report to appropriate authorities suspected cases of abuse of vulnerable populations.

7D3 Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .

7D4 Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (APTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary.

7D6 Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.

7D7 **Communicate effectively with all stakeholders, including patients/ clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.**

7D8 Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.

7D10 Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.

7D11 Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D13 Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.

Plan of Care

7D21 Determine when an intervention should not be performed due to clinical indications or when the direction to perform the intervention is beyond that which is appropriate for the physical therapist assistant

Intervention

7D23 Demonstrate competence in implementing selected components of interventions identified in the plan of care established by the physical therapist. Interventions include:

- a. Airway Clearance Techniques: breathing exercises, coughing techniques and secretion mobilization
- b. Application of Devices and Equipment: assistive/adaptive devices and prosthetic and orthotic devices.
- c. Biophysical Agents: biofeedback, electrotherapeutic agents, compression therapies, cryotherapy, hydrotherapy, superficial and deep thermal agents, traction and light therapies.
- d. Functional training in Self-Care and in Domestic Education, Work, Community, Social, and Civic Life
- e. Manual Therapy Techniques: passive range of motion and therapeutic massage
- f. Motor Function Training (balance, gait, etc.)
- g. Patient/ Client Education
- h. Therapeutic Exercise
- i. Wound Management: isolation techniques, sterile technique, application and removal of dressing or agents, and identification of precautions for dressing removal

Test and Measures

7D24 Demonstrate competence in performing components of data collection skills essential for carrying out the plan of care by administering appropriate tests and measures (before, during and after interventions) for the following areas:

- a. Aerobic capacity and Endurance: measurement of standard vital signs; recognize and monitor responses to positional changes and activities (e.g. orthostatic hypertension, response to exercise)
- b. Anthropometrical Characteristics: measurements of height, weight, length, and width
- c. Mental Functions: detect changes in a patient's state of arousal, mentation and cognition
- d. Assistive Technology: identify the individual's and caregiver's ability to care for the device; recognize changes in skin condition and safety factors while using devices and equipment
- e. Gait, Locomotion, and Balance: determine the safety status, and progression of patients while engaged in gait, locomotion, balance, wheelchair management and mobility

- f. Integumentary Integrity: detect absent or altered sensation; normal and abnormal integumentary changes; activities, positioning and postures that aggravate or relieve pain or altered sensations, or that can produce associated skin trauma; and recognize viable versus non-viable tissue.
- g. Joint integrity and mobility :detect normal and abnormal joint movement
- h. Muscle performance: measures muscle strength by manual muscle testing; observe the presence or absence of muscle mass; recognize normal and abnormal muscle length, and changes in muscle tone
- i. Neuromotor Development: detect gross motor milestones, fine motor milestones, and righting and equilibrium reactions
- j. Pain: administer standardized questionnaires, graphs, behavioral scales or visual analog scales for pain; recognize activities, positioning and postures that aggravate or relieve pain or altered sensations.
- k. Posture: determine normal and abnormal alignment of trunk and extremities at rest and during activities.
- l. Range of Motion: measures functional range of motion and measure range of motion using an appropriate measurement device.
- m. Self-care and Civic, Community, Domestic, Education, Social and Work Life: inspect the physical environment and measure physical spaces; recognize safety and barriers in the home, community and work environments; recognize level of functional status; administer standardized questionnaires to patients and others.
- n. Ventilation, Respiration and Circulation: detect signs and symptoms of respiratory distress, and activities that aggravate or relieve edema, pain, dyspnea, or other symptoms; describe thoracoabdominal movements and breathing patterns with activity, and cough and sputum characteristics.

7D25 Complete accurate documentation that follows guideline and specific documentation formats required by state practice acts, and other regulatory agencies.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

Course Number and Name: PTA 2523 Physical Therapy Seminar

Description: This course represents a synthesis of previous didactic, laboratory, and clinical experiences. Students are directed to explore a topic or area of interest in physical therapy practice. Recognition of the importance of employability skills after graduation is included.

Hour Breakdown:

Semester Credit Hours	Lecture	Clinical	Contact Hours
3	3	0	45

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Present a topic of interest and/or case study in physical therapy.
 - a. Review current professional literature
 - b. Identify a particular interest in an aspect of physical therapy treatment to be targeted for development
 - c. Utilize clinical experiences, didactic instruction, patient and therapist interviews, and other resources in addition to a review of all pertinent literature to develop a clinical expertise
 - d. Compose a paper and present to a peer audience the body of knowledge gained during the development of the selected topic
 - e. Identify patients from clinical education experiences with an interesting diagnosis and a clinical course that includes physical therapy intervention
2. Complete a mock licensure exam
 - a. Attain a passing score on a mock exam
 - b. Utilize test results to identify areas of knowledge that should be targeted for further study in preparation for licensure exam
3. Demonstrate the skills required for successful employment
 - a. Demonstrate effective planning and time management skills
 - b. Describe the supervisory process and performance evaluations
 - c. Delineate the importance of policies and procedures in the provision of patient care
 - d. Delineate the importance of continuous performance improvement activities

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

- 7D1** Adhere to legal practice standards, including all federal, state and institutional regulations related to patient/client care and fiscal Management.
- 7D2** Report to appropriate authorities suspected cases of abuse of vulnerable populations.
- 7D3** Report to appropriate authorities suspected cases of fraud and abuse related to the utilization of and payment for physical therapy and other health care services. .
- 7D4** Perform duties in a manner consistent with the Guide for Conduct of the Physical Therapist Assistant (PTA and Standards of Ethical Conduct (APTA) to meet the expectations of patients, members of the physical therapy profession, and other providers as necessary

- 7D6** Implement, in response to an ethical situation, a plan of action that demonstrates sound moral reasoning congruent with core professional ethics and values.
- 7D7** Communicate effectively with all stakeholders, including patients/clients, family members, caregivers, practitioners, inter professional team members, consumers, payers, and policymakers.
- 7D8** Identify respect, and act with consideration for patients'/clients' differences, values, preferences, and expressed needs in all work related activities.
- 7D9** Apply current knowledge, theory, and clinical judgement while considering the patient/client perspective and the environment, based on the plan of care established by the physical therapist.
- 7D10** Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.
- 7D11** Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.
- 7D12** Effectively educate others using teaching methods that are commensurate with the needs of patient, care giver or healthcare personnel.
- 7D13** Participate in professional and community organization that provide opportunities for volunteerism, advocacy and leadership.
- 7D14** Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Plan of Care

- 7D17** Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.

Participation in Health Care Environment

- 7D29** Participate in performance improvement activities (quality assurance).

Practical Management

- 7D30** Describe aspects of organizational planning and operation of the physical therapy service.

Course Number and Name: **PTA 2911 Seminar III**

Description: This course further develops the principles and characteristics presented in PTA 1911 and PTA 1921.

Hour Breakdown:	Semester Credit Hours	Lecture	Clinical	Contact Hours
	1	1	0	15

Prerequisite: Consent of Instructor

Student Learning Outcomes:

1. Begin to prepare for the licensure exam
 - a. List test-taking strategies for multiple choice questions
 - b. Identify components of the licensure exam
 - c. Write practice licensure exam questions
2. Complete a research paper on an assigned topic
 - a. Perform research on a topic to locate appropriate sources
 - b. Compile and assess information gathered
 - c. Prepare a college-level paper with correct documentation of sources

CAPTE Standards and Required Elements for Accreditation of Physical Therapist Assistant Education Programs

Ethics, Values, and Responsibilities

7D10 Identify basic concepts in professional literature including, but not limited to, validity, reliability and level of statistical significance.

7D11 Identify and integrate appropriate evidence based resources to support clinical decision-making for progression of the patient with the plan of care established by the physical therapist.

7D14 Identify career development and lifelong learning opportunities, including the role of the physical therapist assistant in the clinical education of physical therapist assistant students.

Patient/ Client Management

7D15 Interview patients/ clients, caregivers, and family to obtain current information related to prior and current level of function and general health status (e.g., fatigue, fever, malaise, unexplained weight change).

7D26 Respond effectively to patient/ client and environmental emergencies that commonly occur in the clinical setting.

Participation in Health Care Environment

7D27 Contribute to efforts to increase patient and health care provider safety.

7D28 Participate in the provision of patient- centered inter professional collaborative care

Appendix A: RECOMMENDED TOOLS AND EQUIPMENT

CAPITALIZED ITEMS

1. Exercise mat, floor-type (1 per 2 students)
2. Freezer, cold pack (1 per program)
3. Hydrocollator (2 per program)
4. Ice machine (1 per program)
5. Parallel bars (1 per program)
6. Ramp (1 per program)
7. Stairs (1 per program)
8. Stimulator, electrical, combination electrotherapy unit (2 per program)
9. Stimulator, electrical, microcurrent (1 per program)
10. Stimulator, electrical, ultrasound combo unit (1 per 4 students)
11. Stimulator, electrical, high voltage pulse current unit (2 per program)
12. Stimulator, electrical, Russian (1 per program)
13. Stimulator, electrical, portable FES (1 per 4 students)
14. Stimulator, electrical, DC current (1 per 12 students)
15. Stimulator, electrical, interferential (2 per program)
16. Stretcher, rolling gurney with mattress (1 per program)
17. Table, mat (1 per 5 students)
18. Table, tilt, electric (1 per program)
19. Traction, device (2 per program)
20. Traction table with split section (1 per program)
21. Bed traction (1 per program)
22. Ultrasound unit with cart (1 per 4 students)
23. UV/Infrared light (1 per program)
24. Fluidotherapy (1 per program)
25. Shortwave diathermy (1 per program)
26. Pulsavac (1 per program)
27. Wheelchair, hemi-drive (1 per program)
28. Wheelchair, standard unit (1 per 4 students)
29. Wheelchair, reclining (1 per program)
30. Whirlpool, extremity (1 per program)
31. Whirlpool, mobile with bench seat (1 per program)
32. High-Low table (1 per program)
33. Sequential circulator (1 per program)
34. Stairmaster (1 per program)
35. Treadmill (1 per program)
36. Stationary bike (1 per program)
37. Computer (2 per program)
38. Printer, laser (1 per 2 computers)
39. Skeleton, articulated model (1 per program)
40. Skeleton, disarticulated model (1 per program)
41. TV, color 25 in. with remote (1 per program)
42. VCR (1 per program)
43. DVD player (1 per program)
44. Washer (1 per program)
45. Dryer (1 per program)
46. Refrigerator (1 per program)
47. High-Low mat (1 per program)
48. Hivamat (1 per program)

49. Game Ready

NON-CAPITALIZED ITEMS

1. Ball, large exercise (1 per program)
2. BAPS board (1 per program)
3. Bed, hospital, electric (1 per program)
4. Biofeedback, EMG (1 per 4 students)
5. Biofeedback, temperature, pulse, muscle (1 per program)
6. Chair, traction (1 per program)
7. Cutaneous sensory kit (1 per 4 students)
8. Dynanometer, hand (1 per program)
9. Exercise board with legs (1 per program)
10. Goniometer set (1 per 2 students)
11. Hand evaluation kit (1 per program)
12. Inclinator (2 per program)
13. Iontophoresor (1 per 4 students)
14. Microwave (1 per program)
15. Mirror, freestanding (2 per program)
16. Overhead hospital bed frame (1 per program)
17. Paraffin bath (2 per program)
18. Pinch dynamiter (1 per 4 students)
19. Postural evaluation kit (2 per program)
20. Pulley weights (1 per program)
21. Pump, external compression (2 per program)
22. Scales, digital (1 per program)
23. Skin fold fat calipers (1 per program)
24. Stimulator, electrical, TENS (1 per 2 students)
25. Table, small adjustable (2 per program)
26. Vestibular board (1 per program)
27. Volumeter, hand-arm (2 per program)
28. Volumeter, foot (1 per program)
29. Weight cart with cuff weights (1 per program)
30. Wheelchair cushion (2 per program)
31. Call bells (1 per 2 students)
32. Plinths (1 per 2 students)
33. Lift, hydraulic (1 per program)
34. Splints, wrist, knee immobilizer (1 assorted set per program)
35. Braces: Back, knee, ankle (1 assorted set per program)
36. Prone positioner (1 per 4 students)
37. Pulleys (1 per program)
38. Rowing machine (1 per program)
39. Theraputty, variety set (1 per 10 students)
40. Powder board (2 per program)
41. Hot packs (20 per program)
42. Strength evaluator (1 per program)
43. Exercise ball (2 per program)
44. ASP "Sharps" container (1 per program)
45. Back support, lumbosacral corset (1 per program)
46. Ball, therapeutic (Small) (1 per program)
47. Bolster, pediatric (1 set per program)
48. Cane, standard adjustable (1 per 3 students)
49. Cane, quad (1 per 6 students)

50. Cold pack (20 per program)
51. Crutches, axillary (1 pair per 2 students)
52. Crutches, loftstrand (2 pair per program)
53. Dumbbell rack with dumbbells (1 per program)
54. Exercise skate (4 per program)
55. Gait belts (1 per 2 students)
56. Goggle (2 per program)
57. Goniometer, finger (1 per 4 students)
58. Goniometer, large (1 per 2 students)
59. Goniometer, small (1 per 3 students)
60. Hand splint, resting hand splint (2 pair per program)
61. Towels (3 per student)
62. Pillows (15 per 10 students)
63. Hip abduction pillow (1 per program)
64. Knee brace, Swedish knee cage (1 per program)
65. Pillowcases, standard (3 per student)
66. Platform attachment (1 set or pair per program)
67. Reach extender (1 per program)
68. Reflex hammer (1 per student)
69. Sliding board (1 per 4 students)
70. Sling, arm (1 per program)
71. Sock aide (1 per program)
72. Sphygmomanometer (1 per 2 students)
73. Stethoscope (1 per 2 students)
74. Stop watch (2 per program)
75. Tape measure (1 per student)
76. Terminal knee extension boards (2 per program)
77. Thermometer, glass (1 per student)
78. Walker, standard adjustable (1 per 2 students)
79. Walker, standard rolling with brakes (2 per program)
80. Ankle model (1 per program)
81. Brain model (1 per program)
82. Elbow, model deluxe (1 per program)
83. Hand model (1 per program)
84. Hip model (1 per program)
85. Knee model (1 per program)
86. Knee model, deep dissection (1 per program)
87. Cart, VCR/TV (1 per program)
88. Chart, anatomical (1 set per program)
89. Lumbar model, 4th and 5th (1 per program)
90. Shoulder model (1 per program)
91. Spine model (1 per program)
92. Synovial joint model (1 per program)
93. Vertebral column, deluxe (1 per program)
94. Desks (1 per student)
95. Chairs (1 per student)
96. File cabinets (3 per program)
97. Bookshelves (2 per program)
98. Flat sheet (2 per student)
99. Apple tv (1 per program)
100. I pads/Mac Book (1 per instructor)
101. Doppler

RECOMMENDED INSTRUCTIONAL AIDS

1. LCD Projector
2. Smart tv
3. Smart Board

APPENDIX B: CURRICULUM DEFINITIONS AND TERMS

- Course Name – A common name that will be used by all community colleges in reporting students
- Course Abbreviation – A common abbreviation that will be used by all community and junior colleges in reporting students
- Classification – Courses may be classified as the following:
 - Career Certificate Required Course – A required course for all students completing a career certificate.
 - Technical Certificate Required Course – A required course for all students completing a technical certificate.
 - Technical Elective – Elective courses that are available for colleges to offer to students.
- Description – A short narrative that includes the major purpose(s) of the course
- Prerequisites – A listing of any courses that must be taken prior to or on enrollment in the course
- Corequisites – A listing of courses that may be taken while enrolled in the course
- Student Learning Outcomes – A listing of the student outcomes (major concepts and performances) that will enable students to demonstrate mastery of these competencies

The following guidelines were used in developing the program(s) in this document and should be considered in compiling and revising course syllabi and daily lesson plans at the local level:

- The content of the courses in this document reflects approximately 75% of the time allocated to each course. The remaining 25% of each course should be developed at the local district level and may reflect the following:
 - Additional competencies and objectives within the course related to topics not found in the state framework, including activities related to specific needs of industries in the community college district
 - Activities that develop a higher level of mastery on the existing competencies and suggested objectives
 - Activities and instruction related to new technologies and concepts that were not prevalent at the time the current framework was developed or revised
 - Activities that include integration of academic and career–technical skills and course work, school-to-work transition activities, and articulation of secondary and postsecondary career–technical programs
 - Individualized learning activities, including work-site learning activities, to better prepare individuals in the courses for their chosen occupational areas
- Sequencing of the course within a program is left to the discretion of the local college. Naturally, foundation courses related to topics such as safety, tool and equipment usage, and other fundamental skills should be taught first. Other courses related to specific skill areas and related academics, however, may be sequenced to take advantage of seasonal and climatic conditions, resources located outside of the school, and other factors. Programs that offer an Associate of Applied Science Degree must include all of the required Career Certificate courses, Technical Certificate courses **AND** a minimum of 15 semester hours of General Education Core Courses. The courses in the General Education Core may be spaced out over the entire length of the program so that students complete some academic and Career Technical courses each semester. Each community college specifies the actual courses that are required to meet the General Education Core Requirements for the Associate of Applied Science Degree at their college.

- In order to provide flexibility within the districts, individual courses within a framework may be customized by doing the following:
 - Adding new student learning outcomes to complement the existing competencies and suggested objectives in the program framework
 - Revising or extending the student learning outcomes
 - Adjusting the semester credit hours of a course to be up 1 hour or down 1 hour (after informing the Mississippi Community College Board [MCCB] of the change)

Appendix C: COURSE CROSSWALK

Course Crosswalk Physical Therapist Assistant CIP 51.0806 – Physical Therapist Assistant					
<i>Note: Courses that have been added or changed in the 2017 curriculum are highlighted.</i>					
Existing			Revised		
2010 MS Curriculum Framework			2017 MS Curriculum Framework		
Course Number	Course Title	Hours	Course Number	Course Title	Hours
PTA 1111	Health Care Experience I	1	PTA 1111	Health Care Experience I	1
PTA 1123	Fundamental Concepts of Physical Therapy	3	PTA 1123	Fundamental Concepts of Physical Therapy	3
PTA 1132	Practicum I	2	PTA 1132	Practicum I	2
PTA 1143	Practicum II		PTA 1143	Practicum II	
PTA 1151	Health Care Experience II	1	PTA 1151	Health Care Experience II	1
PTA 1213	Fundamental Skills for Physical Therapist Assistants	3	PTA 1213	Fundamental Skills for Physical Therapist Assistants	3
PTA 1224	Therapeutic Modalities	4	PTA 1224	Therapeutic Modalities	4
PTA 1314	Kinesiology	4	PTA 1314	Kinesiology	4
PTA 1324	Therapeutic Exercise and Rehabilitation I	4	PTA 1324	Therapeutic Exercise and Rehabilitation I	4
PTA 1911	Seminar I	1	PTA 1911	Seminar I	1
PTA 1921	Seminar II	1	PTA 1921	Seminar II	1
			PTA 2111	Clinical Seminar I	1
PTA 2234	Electrotherapy	4	PTA 2234	Electrotherapy	4
PTA 2334	Therapeutic Exercise and Rehabilitation II	4	PTA 2334	Therapeutic Exercise and Rehabilitation II	4
PTA 2413	Clinical Education I	3	PTA 2413	Clinical Education I	3
PTA 2424	Clinical Education II	4	PTA 2424	Clinical Education II	4
PTA 2434	Clinical Education III	4	PTA 2434	Clinical Education III	4
PTA 2444	Clinical Education IV	4	PTA 2444	Clinical Education IV	4
PTA 2513	Medical Conditions and Related Pathology	3	PTA 2513	Medical Conditions and Related Pathology	3
PTA 2523	Physical Therapy Seminar	3	PTA 2523	Physical Therapy Seminar	3
PTA 2911	Seminar III	1	PTA 2911	Seminar III	1

Appendix D: Recommended Textbooks

Physical Therapist Assistant Text Book List CIP 51.0806 – Physical Therapist Assistant		
Book Title	Author (s)	ISBN
Fundamentals of the Physical Therapy Examination, 2 nd Edition	Stacie J. Fruth	13:978-1-2840-9962-1
Orthopedic Physical Examination Test: An Evidence-Based Approach, 2 nd Edition	Chad E. Cook and Eric J. HegEditionus	13:978-0-1325-4478-8
Pathology for the Physical Therapist Assistant, 1 st Edition	Penelope J. Lescher	13:978-0-8036-0786-6
The Role of the Physical Therapist Assistant, 1st Edition	Holly Clynych	13:978-0-8036-5816-5
Physical Agents in Rehabilitation, 4 th Edition	Michelle H. Cameron	13:978-0-3234-4567-2
Muscle and Sensory Testing, 3rd Edition	Nancy Berryman Reese	13:978-1-4377-1611-5
Human Diseases A Systematic Approach, 7th Edition	Mark Zelman, Elaine Tompany, Jill Raymond,Paul Holdaway and Mary Lou Mulvihill	13:978-0-1334-2474-4
Writing Patient/Client Notes, 5 th Edition	Ginge Kettenbach and Sarah L. Schlomer	13:978-0-8036-3820-4
Fundamental Orthopedic Management for the Physical Therapist Assistant, 4 th Edition	Robert C. Manske	13:978-0-323-11347-2
Documentation for the Physical Therapist Assistant, 5th Edition	Wendy Bircher	13: 978-0-8036-2674-4
Documentation Basics for the PTA, 2 nd Edition	Mia Erickson, and Rebecca McKnight	13:978-1-61711-008-5
Introduction to Physical Therapy, 5th Edition	Michael A Pagliarulo	13:978-0-3233-2835-7
Quick and Easy Medical Terminology, 8th Edition	Peggy C. Leonard,	13:978-0-3233-7098-1
Medical Terminology Simplified, 5 th Edition	Barbara Gylys and Regina Masters	13:978-0-8036-3971-3
Principles and Techniques of Patient Care, 6th Edition	Sheryl Fairchild	13:978-0-3234-4584-9
Physical Rehabilitation Assessment & Treatment,	Susan B O’Sullivan and Thomas J Schmitz	13: 978-0-8036-2579-2

6th Edition		
Physical Agents Theory and Practice, 3rd Edition	Barbara Behrens and Holly Beinert	13: 978-0-8036-3816-7
Manual for Physical Agents, 6 th Edition	Karen W Hayes and Kathy Hall	13: 978-0-13-607215-7
Beard's Massage, 5th Edition	Giovanni De Domenico	13:978-0-7216-0350-6
Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination, 9th Edition	Helen Hislop, Dale Avers, and Marybeth Brown	13:978-1-4557-0615-0
Measurement of Joint Motion: A Guide to Goniometry, 5th Edition	Cynthia Norkin and Joyce White	13: 978-0-8036-4566-0
Clinical Kinesiology and Anatomy, 6th Edition	Lynn Lippert	13: 978-0-8036-5823-3
Laboratory Manual for Clinical Kinesiology and Anatomy, 4 th Edition	Lynn Lippert and Mary Alice Minor	13:978-0-8036-5825-7
Orthopedics for the PTA, 1 st Edition	Mark Dutton	13: 978-0-7637-9755-3
Therapeutic Exercise: Foundations and Techniques, 6 th Edition	Carolyn Kisner and Lynn Allen Colby	13: 978-0-8036-2574-7
Neurologic Interventions for Physical Therapy, 3rd Edition.	Susan Marti and Mary Kessler,	13:978-1-4557-4020-8
PTAEXAM The Complete Study Guide, 6 th Edition	Scott M Giles	13:978-1-890989-39-2
PT Clinical Handbook for PTAs, 3 rd Edition	Kathy Cikulin-Kulinski	13:978-1-2841-0556-8
Improving Physical Outcomes in Physical Rehabilitation, 2 nd Edition	Susan B O'Sullivan and Thomas J.Schmitz	13:978-0-8036-4612-4
PTA Blue Macs, 3 rd Edition	Cindy Lavine, Jan Myers, Karen Jacobs, Juilianne Blanford, Beverly Newman and Tom McKelvey	n/a