Sports Physical Therapy Residency Program

Curriculum

Effective: July 2018
SPORTS PHYSICAL THERAPY RESIDENCY PROGRAM

Program Director: Dr. Teresa Schuemann

The EIM Sports Physical Therapy Residency (SPTR) is committed to developing evidence-based physical therapy practitioners and clinical scientists around the world. We seek to produce highly skilled autonomous practitioners who are critical thinkers, reflective, empathetic, and lifelong learners. Residency graduates will be practitioners grounded in the principles of an evidence based practice model and experts at rapidly integrating that practice into sports physical therapy practice. Sports physical therapy residency graduates will be a productive member of the sports medicine team.

Sports Physical Therapy Residency Program Objectives:
1. Provide a cutting edge educational environment consistently across the spectrum of sports medicine settings and for all residents through integration of state of the art learning tools with advanced professional clinical practice.
2. Develop physical therapists that value the principles of evidence-based practice and behave accordingly in their daily practice.
3. Develop advanced practitioners skilled in sports physical therapy who are capable of rapid integration of current best evidence into clinical practice.
4. To develop interest in and promote life-long learning by PTs.
5. Provide a planned, efficient route for physical therapists including new graduates to become board certified specialists in Sports Physical Therapy through ABPTS through our curriculum, mentoring and ongoing assessment and self-reflection.
6. Develop practitioners who confidently and professionally interact with other members of the healthcare and sports medicine team and provide leadership in the area of evidence based care for musculoskeletal conditions.

Sports Physical Therapy Residency Program Admission Requirements
1. All applicants must have successfully completed a CAPTE accredited professional physical therapy curriculum, or have had a state physical therapy board approve the applicant’s first-professional physical therapy program as “equivalent” to a US CAPTE accredited professional physical therapy program.
2. All applicants must have a current license to practice physical therapy in a particular state(s) in the United States or eligible and in the process of applying to sit for licensure. This license must not be under suspension, revocation, probationary status, or subject to disciplinary proceedings or inquiry. Applicants must pass the licensure exam before officially beginning studies.
3. All applicants must be active members of the APTA in good standing and we highly recommended membership in the Sports Physical Therapy Section.
4. All applicants must have current CPR certification and professional liability insurance coverage that applies to all clinical settings in which they work.
5. Applicants must submit a completed application in a timely manner in order to be considered for the program.
6. Per ABPTRFE requirements, residents cannot conduct their clinical mentorship hours (1:1 or non-1:1 mentorship hours) in a physician owned physical therapy service (POPTS) or referral for profit (RFP) clinical situation.
7. All program participants must also have attained one of the following prior to initiation of the program:
   - Current licensure as an Emergency Medical Technician (EMT),
   - Current certification as a Certified Athletic Trainer (ATC), or
   - Current certification as an Emergency Medical Responder (EMR) from the American Red Cross.
   Completion of the EIM Emergency Medical Response course is preferred to attain the necessary pre-requisite certification and familiarize the potential participant to the distributed learning model utilized throughout the program.

Completion of the EIM Emergency Medical Response course is preferred to attain the necessary pre-requisite certification and familiarize the potential participant to the distributed learning model utilized throughout the program.
## Curriculum

The Sports Physical Therapy Residency Program (SPTR) consists of 42 credit hours of blended online and onsite learning. The participant has between 10 months and 5 years (60 months) of active enrollment to complete the program. Most participants complete the SPTR program in 16 – 18 months. The curriculum consists of the following outlined academic courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPT 6110</td>
<td>Essentials of Pharmacology &amp; Clinical Lab Tests*</td>
<td>*1</td>
</tr>
<tr>
<td>EBP 6100</td>
<td>Evidence-based Practice I</td>
<td>1</td>
</tr>
<tr>
<td>ORPT 6510</td>
<td>Management of Lumbopelvic Disorders</td>
<td>5</td>
</tr>
<tr>
<td>ORPT 6520</td>
<td>Management of Lower Extremity Disorders</td>
<td>5</td>
</tr>
<tr>
<td>ORPT 6530</td>
<td>Management of Cervical and Thoracic Disorders</td>
<td>5</td>
</tr>
<tr>
<td>ORPT 6540</td>
<td>Management of Upper Extremity Disorders</td>
<td>5</td>
</tr>
<tr>
<td>SPPT 6110</td>
<td>Basic Science in Sports Physical Therapy</td>
<td>1</td>
</tr>
<tr>
<td>SPPT 6120</td>
<td>Sports Nutrition and Performance Enhancement</td>
<td>1</td>
</tr>
<tr>
<td>SPPT 6130</td>
<td>The Female Athlete</td>
<td>1</td>
</tr>
<tr>
<td>SPPT 6140</td>
<td>Sports Across the Ages</td>
<td>1</td>
</tr>
<tr>
<td>SPPT 6510</td>
<td>Sports Physical Therapy Competencies</td>
<td>5</td>
</tr>
<tr>
<td>SPPT 7110</td>
<td>Professional Forum in Sports Physical Therapy</td>
<td>1</td>
</tr>
<tr>
<td>SPPT 7270</td>
<td>Sports Residency Virtual Rounds</td>
<td>2</td>
</tr>
<tr>
<td>SPPT 7280</td>
<td>SCS Exam Preparatory Course</td>
<td>2</td>
</tr>
<tr>
<td>SPPT 7590</td>
<td>Sports Residency Mentored Clinical Practice</td>
<td>5</td>
</tr>
<tr>
<td>SPPT 7190</td>
<td>Athletic Venue Hours</td>
<td>1</td>
</tr>
</tbody>
</table>

42 credits

*APPT 6110 Required for Bachelors and Masters prepared residents

**NOTE:** SPPT 6000 — Emergency Medical Response for the Sports Physical Therapist or equivalent is a pre-requisite for this program.
ADVANCED PRACTICE PHYSICAL THERAPY (APPT)

APPT 6110 Essentials of Pharmacology & Clinical Lab Tests 1 credit
This course complements entry-level education on pharmacology and clinical lab testing. Course material focuses on the clinical application of key pharmacology principles in an outpatient musculoskeletal physical therapy setting. Basic concepts of pharmacokinetics and pharmaco-therapeutics are covered, followed by a specific focus on medications commonly prescribed for cardiovascular disorders, diabetes, pain control, and pulmonary disorders. Discussion of these broad categories of drugs will cover clinical application, intended therapeutic effects, and potential adverse affects. This course also provides an overview of a core set of clinical lab tests that physical therapists should understand and should be confident suggesting to medical providers or ordering themselves (based on the physical therapist's practice act or credentials). The clinical lab tests discussed include basic biochemistry, immunology, hematology, & microbiology tests. Note for Orthopaedic and Sports Residents Only: This course is waived for those who are DPT prepared upon entry into the residency program.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Understand the basics of pharmacokinetic and pharmaco-therapeutic principles and how they impact our patients.
2. Identify indications for common classes of drugs, as well as their intended therapeutic actions, potential side effects, and potential implications for physical therapy practice.
3. Use information on therapeutic actions, potential side effects, and implications for PT practice in planning and modifying patient plans of care.
4. Use selected web-based resources on pharmacology
5. Understand key indications for requesting selected clinical lab tests, as well as the ranges for normal test results.
6. Understand potential reasons for abnormal clinical lab tests, and identify a plan of action once an abnormal clinical lab test is identified.

EVIDENCE BASED PRACTICE (EBP)

EBP 6100 Evidence-based Practice I 1 credit
This course is designed to improve the participant's understanding and use of evidence-based practice; it's history and impact on physical therapy practice. Using case scenarios, guided tutorials, and journal references, participants will learn how to ask clinically relevant questions, find and interpret the evidence, and apply this evidence to clinical practice. The goal of this course is to develop consumers and users of clinical research that will improve the quality and impact of the participant's clinical practice on the patients they serve.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Define EBP and discuss its philosophy and fundamental principles.
2. Construct a well-built clinical question.
3. Search the literature using available search portals, engines and databases effectively and efficiently.
4. Critically appraise articles dealing with Intervention or Therapy for validity.
5. Discuss the application of current best evidence into clinical practice.
6. Discuss evaluation of your performance.
7. Identify key EBP resources and aides.
ORTHOPAEDIC PHYSICAL THERAPY (ORPT)*

*Note – Each of these management courses has a concurrent enrollment course SPPT 7270 Virtual rounds in the final 4 weeks of each course to allow direct application of these concepts to Sports Physical therapy clinical practice in athletic cases.

ORPT 6510    Management of Lumbopelvic Disorders 5 credits
Patients with low back and pelvic/hip pain make up nearly 50% of all patients receiving outpatient physical therapy. This course is designed to enhance the student’s knowledge and skill level in the evidence-based management of individuals with lumbopelvic spine and hip disorders and dysfunction. Classification systems, diagnosis, and outcomes assessment tools are discussed as components of the diagnostic process within the framework of evidence-based practice. The use of diagnostic imaging and medical screening for red flags is discussed to effectively screen for systemic and vascular disorders. Evidence-based treatment approaches, with special emphasis on manual therapy (mobilization/manipulation) and exercise, are reviewed to improve the student's management of individuals with lumbopelvic musculoskeletal disorders. An intensive laboratory weekend is included to provide hands-on demonstration and practice of examination skills and selected manual therapy and exercise interventions for the lumbopelvic spine and hip regions.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Use knowledge in the foundational and clinical sciences related to structure, movement dysfunction, response to injury and disease and promotion of health and wellness to enhance physical therapy outcomes for patients with lower extremity disorders
2. Participate in peer-assessment activities.
3. Demonstrate clinical decision-making skills, including clinical reasoning, clinical judgment, and reflective practice.
4. Understand and apply the disablement and patient/client management models in physical therapist practice.
5. Examine patients/clients by obtaining a history, by performing systems reviews, and by selecting and administering valid and reliable age-related tests and measures.
6. Synthesize data from the examination and analyze data to make clinical judgments regarding patient/client management.
7. Determine a diagnosis that guides patient/client management.
8. Develop a diagnosis based on the disablement model
11. Establish and manage a plan of care.
12. Provide physical therapy interventions to achieve patient/client goals and outcomes.
13. Select patient/client variables that allow research evidence to be collected and applied.

ORPT 6520    Management of Lower Extremity Disorders 5 credits
This course is designed to enhance the student’s knowledge and skill level in the evidence-based management of individuals with lower extremity disorders and dysfunction. Classification systems, outcomes assessment tools, and the application of diagnostic imaging rules for acute lower extremity injuries are discussed as components of the diagnostic process within the framework of evidence-based practice. Diagnostic information for the medical screening of systemic and vascular disorders is also discussed. Evidence-based treatment approaches, with special emphasis on manual therapy and exercise, are reviewed to improve the student's management of individuals with lower extremity musculoskeletal disorders. An intensive laboratory weekend is included to provide hands-on demonstration and practice of examination skills and selected manual therapy and exercise interventions for the hip, knee and ankle regions.
Course Objectives: At the end of the course the student will be able to or will have completed.

1. Use knowledge in the foundational and clinical sciences related to structure, movement dysfunction, response to injury and disease and promotion of health and wellness to enhance physical therapy outcomes for patients with lower extremity disorders
2. Participate in peer-assessment activities.
3. Demonstrate clinical decision making skills, including clinical reasoning, clinical judgment, and reflective practice.
4. Understand and apply the disablement and patient/client management models in physical therapist practice.
5. Examine patients/clients by obtaining a history, by performing systems reviews, and by selecting and administering valid and reliable age-related tests and measures.
6. Synthesize data from the examination and analyze data to make clinical judgments regarding patient/client management.
7. Determine a diagnosis that guides patient/client management.
8. Develop a diagnosis based on the disablement model.
11. Establish and manage a plan of care.
12. Provide physical therapy interventions to achieve patient/client goals and outcomes.
13. Select patient/client variables that allow research evidence to be collected and applied.

ORPT 6530  Management of Cervical and Thoracic Disorders 5 credits

This course is designed to enhance the student's knowledge and skill level in the evidence-based management of individuals with cervical-thoracic spine and ribcage disorders and dysfunction. Classification systems, diagnosis, and outcomes assessment tools are discussed as components of the diagnostic process within the framework of evidence-based practice. The use of diagnostic imaging and medical screening for red flags is discussed to effectively screen for systemic and vascular disorders. Evidence-based treatment approaches, with special emphasis on manual therapy (mobilization/manipulation) and exercise, are reviewed to improve the student's management of individuals with cervical and thoracic spine musculoskeletal disorders. An intensive laboratory weekend is included to provide hands-on demonstration and practice of examination skills and selected manual therapy and exercise interventions for the cervical and thoracic spine regions.

Course Objectives: At the end of the course the student will be able to or will have completed.

1. Use knowledge in the foundational and clinical sciences related to structure, movement dysfunction, response to injury and disease and promotion of health and wellness to enhance physical therapy outcomes for patients with lower extremity disorders
2. Participate in peer-assessment activities.
3. Demonstrate clinical decision-making skills, including clinical reasoning, clinical judgment, and reflective practice.
4. Understand and apply the disablement and patient/client management models in physical therapist practice.
5. Examine patients/clients by obtaining a history, by performing systems reviews, and by selecting and administering valid and reliable age-related tests and measures.
6. Synthesize data from the examination and analyze data to make clinical judgments regarding patient/client management.
7. Determine a diagnosis that guides patient/client management.
8. Develop a diagnosis based on the disablement model.
11. Establish and manage a plan of care.
12. Provide physical therapy interventions to achieve patient/client goals and outcomes.
13. Select patient/client variables that allow research evidence to be collected and applied.

**ORPT 6540 Management of Upper Extremity Disorders**

This course is designed to enhance the student’s knowledge and skill level in the evidence-based management of individuals with upper extremity disorders and dysfunction. Classification systems, diagnostic clusters, and outcomes assessment tools are discussed as components of the diagnostic process within the framework of evidence-based practice. Diagnostic information for the medical screening of systemic and vascular disorders is also discussed. Evidence-based treatment approaches, with special emphasis on manual therapy and exercise, are reviewed to improve the student’s management of individuals with upper extremity musculoskeletal disorders. An intensive laboratory weekend is included to provide hands-on demonstration and practice of examination skills and selected manual therapy and exercise interventions for the shoulder, elbow, wrist and hand regions.

**Course Objectives: At the end of the course the student will be able to or will have completed.**

1. Use knowledge in the foundational and clinical sciences related to structure, movement dysfunction, response to injury and disease and promotion of health and wellness to enhance physical therapy outcomes for patients with lower extremity disorders
2. Participate in peer-assessment activities.
3. Demonstrate clinical decision making skills, including clinical reasoning, clinical judgment, and reflective practice.
4. Understand and apply the disablement and patient/client management models in physical therapist practice.
5. Examine patients/clients by obtaining a history, by performing systems reviews, and by selecting and administering valid and reliable age-related tests and measures.
6. Synthesize data from the examination and analyze data to make clinical judgments regarding patient/client management.
7. Determine a diagnosis that guides patient/client management.
8. Develop a diagnosis based on the disablement model
11. Establish and manage a plan of care.
12. Provide physical therapy interventions to achieve patient/client goals and outcomes.
13. Select patient/client variables that allow research evidence to be collected and applied.

**SPORTS PHYSICAL THERAPY (SPPT)**

**SPPT 6000 Emergency Medical Response for the Sports Physical Therapist** N/C (pre-requisite)

This course is a pre-requisite for the Sports Physical Therapy Residency and Certification Programs if the participant is not already a Certified Athletic Trainer or EMT. The topics covered include Medical professional CPR/AED and Medical professional First Aid including O2 administration, epinephrine administration, airway insertion and diabetic emergency management. Sport-specific topics consist of Sports PT First Aid including Fracture management, spinal cord immobilization, Mild Traumatic Brain injury (MTBI) primary assessment and management, and thermal injury/emergency prevention, evaluation and management.

**Course Objectives: At the end of the course the student will be able to or will have completed.**

1. Use knowledge in the foundational and clinical sciences related to response to injury/disease to enhance outcomes for athletes with acute injury or illness.
2. Participate in the design and implementation of decision-making guidelines that include patient/client acute care management.
3. Demonstrate clinical decision-making skills, including clinical reasoning, clinical judgment, and reflective practice in the management of acute injury or illness.
4. Examine patients/clients by obtaining a primary assessment, secondary assessment and physical examination to guide clinical decision making regarding the packaging, re-evaluation and return to play of the acutely
injured athlete.
5. Synthesize and analyze data from primary assessment, secondary assessment and physical examination to make clinical judgments regarding patient/client management.
6. Become a productive member of the Emergency Medical Services (EMS) team and the sports medicine team in the assessment and management of athletic injury.
7. Incorporate evidence/consensus-based practice in the management of patients/clients with acute athletic injury or illness.

**SPPT 6110 Basic Science of Sports Physical Therapy**

This course provides current best evidence for basic science of injury and healing as well as Sports Biomechanics including running gait cycle, throwing, golf, cycling, swimming, and jumping/landing biomechanics.

**Course Objectives: At the end of the course the student will be able to or will have completed.**
1. Use knowledge in the foundational and clinical sciences related to structure, movement dysfunction, response to injury and disease, and promotion of health and wellness to enhance physical therapy outcomes for patients with soft tissue (ligament, tendon, and muscle) injuries,
2. Demonstrate understanding of timelines for optimal rehabilitation of soft tissue injuries to include age related differences.
3. Explain the inflammatory process of soft tissue injuries and the evidence basis of clinical management options to include pharmacology, thermal modalities, and manual therapy techniques.
4. Establish and manage a plan of care, incorporating evidence-based practice, for the management of soft tissue and articular cartilage injuries.
5. Synthesize data from a sport specific biomechanical examination and analyze the data to make clinical judgments to optimize patient/client outcomes.
6. Understand risk factors for soft tissue and articular cartilage injuries, and apply these in order to create injury prevention programs.
7. Understand optimal imaging techniques for the evaluation and management of soft tissue injuries.
8. Demonstrate understanding of soft tissue healing and incorporation (ie. Ligamentization, etc) following surgical intervention.
9. Demonstrate proper evaluation and correction of mechanics related to throwing, cycling, swimming, golf, running, jumping/landing to include gender and age related differences.

**SPPT 6120 Sports Nutrition and Performance Enhancement**

This course provides current best evidence for Sports nutrition including hydration guidelines as well as dietary intakes for the active and athletic individual. Further instruction will include performance enhancement issues including vitamin supplementation, steroid usage, creatine and normal drug testing procedures.

**Course Objectives: At the end of the course the student will be able to or will have completed.**
1. Compare and contrast the caloric value, metabolic pathway for utilization, and physiologic need for the three macronutrients.
2. List common micronutrients important to health and athletic performance (vitamins and minerals).
3. Describe the macronutrient intake distribution ranges for athletes.
4. List common micronutrient deficiencies in female athletes.
5. Provide guidelines for hydration of the athlete, pre, during and post competition.
6. Describe the adverse effects of inadequate hydration for the athlete.
7. Provide the mathematical evidence for weight loss or gain using a food intake/energy expenditure log.
8. List and discuss the pros and cons of nutritional and other “legal” supplements for ergogenic purposes, including but not limited to creatine, ginseng, caffeine, etc.
9. Describe the adverse effects of banned ergogenic aids such as anabolic steroids and growth hormone.
10. Describe the procedures used for drug testing at the NCAA and international levels.
SPPT 6130  The Female Athlete  1 credit
This course provides current best evidence for the female triad including the pre-participation screening addendum, jumping biomechanics, ACL prevalence and prevention strategies and life spectrum issues including pregnancy and master athlete issues.

Course Objectives: At the end of the course the student will be able to or will have completed.

1. Demonstrate content area knowledge of the Female Triad in order to ensure application in sports physical therapy clinical practice including pre-season/participation screening procedures as well as evaluation of athletic injury.
2. Use knowledge in the foundational and clinical sciences related to evaluation of athletic movement to further develop and refine evaluation and rehabilitation for the female athletic movement, specifically jumping and cutting mechanics.
3. Use of current best evidence and knowledge in the foundational and clinical sciences related to athletic movement to enhance physical therapy outcomes for female athletic patients including injury prevention including but not limited to ACL injury.
4. Discuss current best evidence for various ACL and ankle sprain injury prevention strategies
5. Use of current best evidence to enhance clinical decision-making, evaluation and rehabilitation to ensure the best clinical outcomes of the female athletes with life spectrum issues including but not limited to pregnancy, osteopenia or osteoporosis.
SPPT 6140  Sports Across the Ages 1 credit
This course provides current best-evidence for both the young and master athlete including basic science of growth, implications for sports participation, rehabilitation, and common injury for each of these populations, physiology of aging and its implications for athletic performance.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Demonstrate content area knowledge related to the physiology of aging to ensure appropriate clinical application with master athletes.
2. Use knowledge in the foundational and clinical sciences related to evaluation of athletic movement to further develop and refine evaluation and rehabilitation for the master athlete.
3. Use of current best evidence and knowledge in the foundational and clinical sciences related to athletic movement to enhance physical therapy outcomes for master athletes in relation to aerobic endurance, anaerobic capacity, power development and balance enhancement.

SPPT 6510  Sports Physical Therapy Competencies 5 credits
Sports Physical Therapy is a specialized practice that focuses on prevention, evaluation, treatment, rehabilitation, and performance enhancement of the physically active individual. In order to become a productive member of a sports medicine team, the sports physical therapist needs to be versed in many facets of care of the athlete. Many of these facets will be covered in this course including: Preventive and supportive taping; Pre-participation Screenings; Functional Movement Screenings including corrective exercise prescription; Evaluation, instruction and treatment of Athletic Movement.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Incorporate information from self-report measures, history and pre-participation musculoskeletal screenings to guide evidence-based decision-making and recommendations to a team physician re: sports participation and/or need for rehabilitation.
3. Demonstrate clinical examination skills for athletic movement
5. Select and demonstrate neuromuscular training and therapeutic exercise interventions based on current best evidence for the rehabilitation of the physically active individual.

SPPT 7110  Professional Forum in Sports Physical Therapy 1 credit
This discussion forum course is a guided tour of the scopes of practice including licensure practices/regulations of common members of the sports medicine team including the team physician, the certified athletic trainer, the sports physical therapist and the strength and conditioning coach.

Course Objectives: At the end of the course the student will be able to or will have completed.
1. Clearly and concisely understand the published scope of practice of the members of a sports medicine team.
2. Clearly understand the state legal considerations including licensure and state practice acts of the sports physical therapist in the state in which the participant practices.

SPPT 7190  Athletic Venue Hours – Mentored Clinical Practice 1 credit
This Clinical Practicum requires the Sports Physical Therapy resident to complete at least 200 athletic venue hours. These hours are intended for the resident to gain experience in acute injury management. Activities should include, but may not be limited to: observation of sports mechanics, assisting in development and implementation of emergency action plans, evaluation and management of acute injury, participating in return to sport assessment and decisions as well as injury prevention efforts. These hours may take place at venues such as athletic fields, athletic facilities, training rooms or gyms. Proper supervision by a venue mentor is required. The
venue mentor serves as the faculty of record and provides the pass/fail grade recommendation and on-going feedback for the practicum to the Program Director.

**SPPT 7270  Sports Residency Virtual Rounds 2 credits**

This course focuses on advanced decision-making regarding clinical care in a collaborative virtual environment. The focus of Virtual Rounds is to further develop each resident’s clinical decision-making and EBP skills providing high quality, evidence-focused feedback to the residents on presented cases. Enrollment in SPPT 7270 — Sports Residency Virtual Rounds is concurrent with enrollment in each of the Clinical Management Courses (ORPT 6510, ORPT 6520, ORPT 6530, and ORPT 6540) with VR activity taking place within the respective course sections during the last 4 weeks of each management course.

**Course Objectives: At the end of the course the student will be able to or will have completed.**

1. Clearly and concisely provide feedback on a patient case that includes key elements of the history, physical examination to include valid and reliable age-related tests and measures, diagnosis, prognosis and plan of care.
2. Participate in peer-assessment and provide feedback to physical therapy colleagues that encourage the application of current best evidence into practice.
3. Demonstrate clinical decision making skills, including clinical reasoning, clinical judgment, and reflective practice.
4. Demonstrate mastery of clinical decision making in musculoskeletal care, with appropriate incorporation of manual physical therapy interventions, throughout the entire course of care (initial examination through discharge)
5. Understand and apply the disablement, patient/client management, and ICF models in physical therapist practice.
6. Synthesize data from the examination and analyze data to make clinical judgments regarding patient/client management.
7. Select patient/client variables that allow research evidence to be collected and applied.
8. Incorporate evidence/consensus-based practice in the management of patients/clients.

**SPPT 7280  SCS Exam Preparatory Course 2 credits**

This course provides a structured, customized method of studying for the American Board of Physical Therapy Specialties (ABPTS) Sports Certified Specialist (SCS) examination. The core content is over 200 questions similar in format and content to the questions asked on this challenging examination. Students start the course by taking a pre-test to establish areas of weakness. Areas of weakness are then improved with a combination of feedback on each question missed as well as short web based lectures and easily digestible content to allow focused and efficient improvement in those areas that need it most. The online learning platform allows each exam to become a learning experience as incorrect responses trigger answer level feedback to instruct the student on why the answer is wrong (or gives additional information about correct answers). The course is completed with the passing of each section of a separate test, although all of the course content remains available to the student until the SCS examination is passed.

**SPPT 7590  Sports Residency Mentored Clinical Practice 5 credits**

This Clinical Practicum is an advanced clinical practice experience in sports physical therapy in which residents are mentored in an intensive one-on-one clinical and supported by their designated mentor/s and EIM faculty and staff via ongoing on-line and face-to-face dialogue. Residents are enrolled in this course continuously during their entire course of study or until the required amount of clinical mentor hours are achieved. Emphasis is placed on advanced clinical decision-making, outcomes evaluation and autonomous patient management. Residents will participate in maintenance of a personal outcomes database where patients are tracked and performance is analyzed and reported. The clinical mentor serves as the faculty of record and provides the pass/fail grade recommendation and on-going feedback for the practicum to the Program Director.