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## 2024 ADVANCED ELECTIVES- SPECIAL TOPICS COURSES AVAILABLE

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### ORTHOPEDICS – 101 RM 371

- Instructor- Pinto
- Credits- 2
- Size- Limited to 26.

Summary- This advanced topic builds on the knowledge acquired during PHTH 7532 and 7533 with an emphasis on learning and refining manual therapy techniques to evaluate and treat the extremities, pelvic girdle, lumbar, thoracic (ribs), and cervical regions. The course consists almost exclusively of learning and practicing hands-on manual therapy techniques in a laboratory setting and application to patient cases. Manual therapy techniques included in the courses consist of passive intervertebral motion assessment, and treatment using graded mobilization/manipulation techniques, muscle energy techniques, neurodynamic treatments, and high-velocity low amplitude thrust manipulation techniques. The primary and clinical instructors in the course are expert clinicians with diverse manual therapy backgrounds. Grading in the course is based on attendance, participation in the course, class demonstrations, and regular formal oral/practical examinations of skills learned. Meets Thursday mornings 9-11:50.

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### GERIATRICS – 103 RM 383

- Instructor- Parker
- Credits- 2
- Size- Minimum of 4, limit 10

Summary- Intensive study and practice of patient care skills especially relevant to the geriatric population and settings (including long term care, SNF, assisted living, retirement community, etc.) Discussion of contemporary issues and advanced physical therapy skills involved in the assessment and treatment of the geriatric population. Instructional methods include lectures, guest speakers, field trips, student directed discussions, readings, online certification, participation in community activities and clinic visits. Student membership in the Academy of Geriatric Physical Therapy is suggested. Capstone project culmination of CEU presentation to local therapists. Meets at 1-2:50 Thursdays and may include Thursday am/and or Friday pm clinic visits.

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### NEUROLOGIC PT – 104 RM 356

- Instructor- DeChant
- Credits- 2
- Size- Limited to 15. Requires concurrent enrollment in PHTH 7668.

Summary- Summary- This course provides students with additional information on some more specialized and advanced topics in neurologic rehabilitation. The format includes lectures, case

study exploration, lab(s), and field trip(s). Topics include but are not limited to; wheelchair rugby classification, assistive technology/technology in neuro rehabilitation, advanced neurologic diagnoses and treatment techniques (vestibular, functional neurologic disorder), and advanced seating/positioning topics. When possible, interaction with patients will be included in the course. Requires concurrent enrollment in PHTH 7668. Student membership in the Academy of Neurologic PT is strongly recommended. Meets weekly Fridays 1-2:50.

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### **PEDIATRICS – 105 – SC 397**

- Instructor- Pleva
- Credits- 2
- Size- Limited to 12.

Summary- Special topics in pediatrics will build upon the information acquired in PHTH 7675 and 7555, with an emphasis on assessment and treatment. Students must have successfully completed PHTH 7555 with a grade of B or better, as a prerequisite for this course. Students will be challenged to identify functional deficits and impairments limiting function in pediatric case studies. Students will learn to develop, progress and adapt individualized treatment plans for case patients. Instructional methods will include lecture, labs, observational experiences and hands on activities with pediatric patients and their families. Discussion topics may include, but are not limited to: assessment, treatment, adaptive equipment, documentation/reimbursement, and current research/treatment trends. Student membership in the Academy of Pediatric Physical Therapy is strongly suggested. Meets Fridays 3-6pm.

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### **PELVIC FLOOR -106 RM 397/396 1-2:50**

- Instructor- Bartelsen, PT, WCS
- Credits- 2
- Size- Maximum 2-3 students, must have transportation

Summary- Intense advanced practicum with strong emphasis on pelvic floor disorders including bladder, bowel, and pain. Curriculum covered follows the topics required for the board certification for a Women's Health Clinical Specialist. The student will assist in creating a customized experience and is able to choose topics for study including pelvic floor, breast oncology, lymphedema, pregnancy / postpartum, osteoporosis and female triad. Students receive a hands-on experience weekly in the clinic and will learn how to perform a pelvic floor exam. Student membership in the Academy of Pelvic Health Physical Therapy is suggested. Meets weekly to every other week on Fridays 1-2:50 for classroom and lab work. Clinic observation is on Thursday am or Friday pm on a rotation depending on numbers.?

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### **PEDIATRIC SPORTS MEDICINE – 107 -RM 383**

- Instructor- Butler
  - Credits- 2
  - Size- Limited to 4, due to lack of specialized internships, but if willing to potentially take a non-ped sports internship, you are still welcome in the course.
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- Summary- Pediatric sports medicine will build upon the information acquired in orthopedics, pediatrics, and kinesiology with an emphasis on specific pediatric injuries, rehabilitation, and the nuances of treating child/adolescent athletes. This course will also include sport specific analysis of mechanics and injuries as well as return to sport exercises, reviewing and adjusting protocols for the pediatric setting, and creating appropriate exercises based on age, sport, and injury. You will also gain an appreciation for the unique social issues involved with this population. Portions of this class will take place in a community clinic setting. Instructional methods will include lecture, observational experiences, and hands on activities with sports medicine pediatric patients and their families. Discussion topics may include, but are not limited to: assessment, treatment, bracing, concussion management, adolescent spine conditions, interaction with primary care sports medicine doctors, and meeting with sports/pediatric psychologist. Meets Fridays 12-1:50 and on some Thursday mornings for patient interaction experiences.
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### **ACUTE CARE ADVANCED ELECTIVE – 108 RM 383**

- Instructor-Neller
- Credits- 2
- Size- Minimum of 3, Max 8

Summary- The acute care advanced elective will prepare students to successfully complete a clinical rotation and to practice in an acute care setting. Acute care is a complex practice environment in which patients often have multi-system involvement and complex co-morbidities. The advanced acute care elective will focus on skill development in managing these complex patients. Content will include clinical decision making in this complex environment, discharge planning, interdisciplinary communication, and diagnoses encountered in the acute care environment. Topics covered will include acute neuro, oncology, amputation, trauma, outcomes assessment, billing/reimbursement, ICU care, and medical procedures. Instructional methods include lectures, guest speakers, case study discussions, SIM lab practice and minimum 1 hospital observation visits (pending COVID regulations). Meets Thursdays 10-11:50.

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### **SPORTS MEDICINE ELECTIVE -109 RM 396**

- Instructor- Falk, PT, DPT, ATC, CSCS
- Credits- 2
- Size- Minimum 3, Maximum of 8

Summary- this elective is intended for students who are interested in working with recreational and competitive athletes as well as those who are considering a sports residency following graduation. This elective will focus on diagnosis, rehabilitation, reconditioning and return-to-sports performance of common sports-related injuries. Students in this course will work with

athletes from the high school, college and professional settings, as well as with recreational athletes.

Some examples of specific conditions that will be addressed include: operative and non-operative management of ACL Injuries, UCL Reconstruction, operative and non-operative management of athletic hip and groin pain, operative and non-operative management of the unstable shoulder, management of tendon pain conditions, bone stress injuries and muscle strains.

Specific athletic populations that will be addressed include: football and contact sports players; baseball, golf, and soccer players; runners and fitness athletes.

Specific techniques that will be used include: systematic evaluation techniques based on the injury and athletic population; systematic progression and regression of therapeutic exercise; incorporation of strength and conditioning principles into rehabilitation; systematic implementation of multi-directional speed and agility movements in rehabilitation; use of objective testing in diagnosis as well as return-to-play decision making; design of return-to- sport programs, and communication within an interdisciplinary team including physicians, strength coaches, sport coaches, and athletic trainers.

Examples of specific technologies the students will be exposed to include but: use of dynamometry for objective strength measurement, dual force plate testing for return-to-play decisions, 3-D motion capture for golf and baseball, and blood flow restriction training.

Students will work with athletes in a variety of settings including professional sports, Division I and III athletics, insurance-based clinics and out-of-network clinics.

Instructional methods will include lecture, lab, and hands-on participation.

The students who participate in this class will have an opportunity to apply for 1-2 clinical internship spots for their final clinical rotation in a local (Milwaukee) clinic that focuses on working with high school, college and professional athletes.

Meets Thursday am 10-11:50 Some classes will be held at Marquette and some will be held in the local community as space and technology needs dictate.

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