March 2013

Dear Prospective Applicant:

Thank you for your interest in the **Certificate in Advanced Practice in Hand and Upper Quarter Rehabilitation**. Included in this document is detailed information that directly applies to your request for program information.

In the 2013-2014 Academic Year, the program will be offering the online learning format infused with the latest technology for interactive learning. The previous classes have enjoyed the online coursework and feel that it has been an invaluable learning opportunity. Onsite weekend sessions are used primarily to conduct laboratory activities including orthotic intervention, examination skills, and cadaver anatomy. There will be 4 integrated weekend sessions.

The online application process is fast and secure. Applicants may avoid paying the $75 application fee when they apply online. Both the paper application and the online application are located at https://www.drexel-grad.org/apply/. There is also a link from the admissions website. Additional information about the application requirements appears later in this document. For assistance with the application process or general administrative questions, please contact **Mia Weiss, Admissions Coordinator at 215-762-8852** or ptadmissions@drexel.edu. For additional questions regarding the course of study please contact Jane Fedorczyk, PT, PhD, CHT, Program Director at 215.762.4680 or jane.fedorczyk@drexel.edu.

Sincerely,

Jane Fedorczyk, PT, PhD, CHT
Director, Post-Professional Clinical Programs
Clinical Professor

Certificate in Advanced Practice in Hand and Upper Quarter Rehabilitation
Physical Therapy and Rehabilitation Sciences
Drexel University, Philadelphia, PA

Program Overview
This program is designed for physical therapists or occupational therapists who wish to participate in advanced study of the hand and upper quarter. The curriculum consists of four graduate level courses, offered in a convenient web-based format with limited onsite weekend sessions to practice psychomotor skills required for advanced practice in hand therapy. Many graduates have indicated that the course work has helped them prepare for the Certification in Hand Therapy (CHT) examination offered by the Hand Therapy Certification Commission (HTCC). The program is a recognized resource by HTCC to help therapists prepare for certification. **For more information on becoming a certified hand therapist, please visit** www.htcc.org.

What kind of Learning Experiences will be used?
The majority of the curriculum will be delivered via web-based tools that allow for a dynamic interactive learning environment. Infused with the latest technology for distance learning, students will participate in class discussions through discussion boards and real time online classes. Discussion board activities allow for asynchronous participation during a stated time range. There are 5 -6 real time online classes during each course. These online sessions are held in the evenings and the sessions are recorded so that students can review the material on their own if they missed the session. Drexel University resources including the libraries are easy to navigate via a distance format provided that students comply with the recommended technology guidelines. The program is designed for part-time study so students will be able to maintain their current work schedules and other personal obligations.

Course Descriptions

PTRS 767 Foundations in Hand Therapy (4 credits)
This course introduces the student to the specialized field of hand therapy. The principles of hand therapy included are musculoskeletal tissues and pathology, clinical reasoning, hand examination, splinting principles, physical agents, and therapeutic exercise. Common elbow, wrist, and hand disorders are discussed to integrate the foundation topics into clinical practice. **This course serves as a prerequisite course for PTRS 768, PTRS 769, and PTRS 770.**

PTRS 768 Upper Quarter Joint Pathology (4 credits)
This course reviews the common pathologies that effect the articulations and surrounding soft tissues, especially tendons and ligaments. Anatomy, biomechanics, and examination principles for each region: shoulder, elbow, wrist, and hand are discussed. Conservative and post-operative therapeutic management for fractures, dislocations, tendon repairs, ligament injuries, and degenerative disorders are presented.

PTRS 769 Nerve Injuries of Upper Qtr (4 credits)
This course emphasizes the anatomy and basic science principles for the cervical spine and major peripheral nerves of the upper quarter. Age-related changes and pathophysiology of nerve lacerations and entrapment neuropathies are discussed. Advanced examination skills and interventions, conservative and post-operative, for pathology of the peripheral nervous system are presented.

PTRS 770 Diseases That Affect the Hand (4 credits)
Course content emphasizes the impact of disease on hand function, especially with activities of daily living, vocational activities, and recreational activities. The overview will include pathology, clinical presentation, examination techniques and clinical interventions specific to the hand. Additionally, multi-system involvement associated with mutilated hand injuries and pain syndromes is discussed.

Faculty

Program Director and Primary Instructor

Jane Fedorczyk, PhD, PT, CHT, Clinical Professor

Jane is the Director of Post-Professional Clinical Programs and primary instructor for the Certificate in Advanced Practice in Hand and Upper Quarter Rehabilitation. Jane has been practicing in hand therapy for over 25 years.

She received her baccalaureate degree from the University of Delaware in 1984 with a combined degree in biology and athletic training. In 1986, she completed her M.S. degree in Physical Therapy from Beaver College (now Arcadia University) and started her hand therapy career at the Philadelphia Hand Center. She became a certified hand therapist in 1992. She completed her PhD at Temple University in the Department of Physical Therapy in 2007.

Her research interest is in the area of work-related musculoskeletal disorders including tendinopathies and nerve compression syndromes, especially at the elbow. In 2005, she was awarded the "Best Scientific Paper" at the ASHT Annual Meeting for her paper, "The presence of Substance P in Forelimb Tendons in a model of upper extremity work-related musculoskeletal disorder." In 2006, she was awarded the Petzoldt Award at the ASHT Annual Meeting for her paper, "The presence of NMDAr1 in Forelimb Tendons in a model of upper extremity work-related musculoskeletal disorder." She received grants from American Association Hand Surgery (AAHS) and American Society of Hand Therapists (ASHT) for these studies.

Jane has served on committees within the American Physical Therapy Association (APTA), ASHT, and AAHS. She has received awards for outstanding service for her work as Vice President of the Hand Rehabilitation Section within the APTA, and for committee work within ASHT. She is a manuscript reviewer for the *Journal of Hand Therapy* and the *Journal of Orthopedics and Sports Therapy*, and other rehabilitation journals.

She has published chapters in the 4th and 5th editions of Rehabilitation of the Hand and Upper Extremity and is co-editor for the 6th edition. She has also published in the *Journal of Hand Therapy, Journal of Orthopedic Research* and textbooks in the areas of pain modulation and tennis elbow.

She frequently presents at national therapy meetings and has been an invited speaker at the International Federation of Societies in Hand Therapy meetings in 1998, 2004, and 2013. She was the keynote speaker for the annual meeting of the Australian Hand Therapy Association in 2002. Since 2000, she has served as a co-chairperson for the Philadelphia Hand Meeting sponsored by the Hand Rehabilitation Foundation. She is a member of the Board of Directors of the Hand Rehabilitation Foundation which supports the Philadelphia Hand Meeting and she is a former board member of American Hand Therapy Foundation (AHTF) which supports research and education in hand therapy. Currently, she is a member of the board of director's for the American Society of Hand Therapists (ASHT), and will serve as President in 2015.

She also maintains a part-time clinical practice in hand therapy as a member of the faculty practice within the Department of Physical Therapy and Rehabilitation Sciences.

Guest Lecturers and Laboratory Assistants

David Ebaugh, PT, PhD, Clinical Associate Professor

Dave received his baccalaureate degree in Physical Therapy from Temple University in 1989 and his PhD in Rehabilitation Sciences in 2004. His research interest is in the identification and treatment of shoulder pain and dysfunction in breast cancer survivors. Dave is a member of the American Physical Therapy Association (APTA) and the American Society of Biomechanics (ASB). He is currently serving on the editorial board for the *Journal of Orthopedics and Sports Therapy.* He is a manuscript reviewer for the *Journal of Orthopedics and Sports Therapy, Physiotherapy Theory and Practice, Physical Therapy, and Journal of Hand Therapy.* Dave has presented scientific papers within his area of research at national APTA and ASB meetings and has published his research in *Clinical Biomechanics,* the *Journal of Electromyography and Kinesiology,* and the *Journal of Orthopedics and Sports Therapy*. Dave provides instruction in the anatomy modules in the nerve and joint pathology courses.

Sheri Feldscher, OTR/L, CHT

Sheri received her occupational therapy degree from Temple University. She is currently working at the Philadelphia Hand Center. Sheri serves as a lab instructor in each of the lab courses and provides some guest lectures as well.

Brian G. Leggin, PT, DPT, OCS

Brian has been a physical therapist for over 20 years since his graduation from Ithaca College in 1991. He has a M.S. in Biomedical Science from Drexel University and his DPT from Temple University. Brian is a clinical specialist on the shoulder and elbow service at Penn Presbyterian Medical Center, Penn Therapy and Fitness. He is board certified as an orthopedic clinical specialist by the American Board of Physical Therapy Specialties. He is a course chairman for the annual Shoulder and Elbow conference held in Philadelphia and he is a frequent faculty member at the Philadelphia Hand Meeting. Brian is an active member of the American Society of Shoulder and Elbow Therapists where has served as Past-President, President, and President-elect. He has numerous publications related to shoulder rehabilitation in journals such as *Journal of Orthopedic and Sports Physical Therapy, Journal of Bone and Joint Surgery, Orthopaedic Clinics of North America, Journal of Shoulder and Elbow Surgery, and Journal of Hand Therapy.* He also has numerous book chapters and presentations at national therapy meetings to his credit. Although a recent addition to the hand programs faculty, he has been guest lecturing at regional physical therapy schools on shoulder rehabilitation for the past ten years.

Mark Walsh, PT, DPT, MS, CHT, ATC

A partner in Hand & Orthopedic Physical Therapy Associates, Mark is a graduate of the University of Iowa, Physical Therapy, 1978, recipient of an advanced degree (Masters of Science) in Orthopedic Physical Therapy from Temple University in 1983 and received his Doctor of Physical Therapy from Drexel University in May 2005. He is credentialed both as a certified hand therapist and as a certified athletic trainer. Mark is nationally recognized as an accomplished writer and lecturer on upper extremity topics including complex regional pain syndrome, thoracic outlet syndrome, brachial plexopathies, peripheral nerve injuries, neural mobilization and rehabilitation of tendon repairs.

Mark is an active member of the American Society of Hand Therapists, winner of the Society's prestigious Natalie Barr Lectureship award and was designated an Honored Professor at the internationally attended 2004 Philadelphia Hand Meeting in Philadelphia sponsored by the

Hand Rehabilitation Foundation. Mark's contributions to his profession also include service within American Society of Hand Therapists and as a selected item writer for the initial certification examination in hand therapy. He is also a member of the Editorial Review Board of the *Journal of Hand Therapy*.

Mark provides instruction primarily in the nerve course, but assists with weekend laboratory activities as well. Jane and Mark have been teaching together since the start of the program in 1999.

Teresa Zapotochny, PT, CHT

Teresa is a graduate of the first class (2001) of the Certificate in Advance Practice in Hand and Upper Quarter Rehabilitation. She received her physical therapy degree from Temple University. She is currently working at the Philadelphia Hand Center. Teresa serves as a laboratory instructor in each of the lab courses.

Course Schedule for the 2013 –2014 Academic Year
(Dates Subject to Change until Fall Orientation Weekend)

Fall Quarter: September 23, 2013 – December 14, 2013

PTRS 767 Foundations in Hand Therapy (4 credits)
Weekend Sessions for PTRS 767
Friday 9/27/13 and Saturday 9/28/13
Friday 11/8/13 and Saturday 11/9/13

Winter Quarter: January 6, 2014 – March 22, 2014

PTRS 769 Nerve Injuries of Upper Qtr (4 credits)
Weekend Session for PTRS 769
Friday 3/7/14 through Sunday 3/9/14

Spring Quarter: March 31, 2014 – June 13, 2014

PTRS 768 Upper Quarter Joint Pathology (4 credits)
WeekendSession for PTRS768
Friday 5/16/14 through Sunday 5/18/14
Note: Sunday lab will end at 4:00pm

Summer Quarter: June 23, 2014 – September 6, 2014

PTRS 770 Diseases That Affect the Hand (4 credits)
No weekend session

Weekend Sessions
Friday classes will be from 1:00 – 7:30pm
Saturday classes will be from 8:30am – 5:30pm
Sunday classes will be from 8:30 – 12:30, except for May 18th

General Information

Graduate Course Credit May Be Applied to other Degree Programs
After successfully completing the four courses, students will receive a post-professional certificate of completion. Previous students have transferred credits from the certificate program to degree programs at other universities; usually as elective credits. The program director will discuss degree opportunities during orientation.

Tuition and Payment Information: Anticipated Expenses for 2013 – 2014 Academic Year

Tuition:	$755.00/credit
Part-time student fee:	$140.00/ quarter
Program fee:	$150.00 first term admit fee (lab supplies)

Each quarter there is one course. Each course is 4 credits.
Tuition = $755.00/credit x 4 credits = $3020.00

Fall Quarter:	
Tuition:	$3020.00
Part-time student fee:	$140.00
Program fee:	$150.00 first term admit fee
	$3310.00
Winter Quarter:	
Tuition:	$3020.00
Part-time student fee:	$140.00
	$3160.00
Spring Quarter:	
Tuition:	$3020.00
Part-time student fee:	$140.00
	$3160.00
Summer Quarter:	
Tuition:	$3020.00
Part-time student fee:	$140.00
	$3160.00

Total: $12,790.00 for tuition and fees

Other Expenses:
1. Travel, lodging, and incidentals for 4 weekends.
2. Books ($300 required; $200 recommended; all four courses)

For ease of payment, students may complete the program over 2 years as follows. They must always start with the Fall quarter and it is recommended that the Summer quarter be taken last.

Textbooks (for ALL 4 courses)
Required:
Skirven, Osterman, Fedorczyk, Amadio: Rehabilitation of the Hand and Upper Extremity, ed. 6, Elsevier, Philadelphia, 2011. ISBN = 978-0-323-05602-1.
This text will be used for all four courses in the hand program. This text will cost $307.95 for the two-volume set if you purchase it from Elsevier at www.elsevier.com.
The Drexel University bookstore has been asked to carry this text since, but they have been told that most students will purchase online. Our bookstore is operated by Barnes & Noble and will likely charge more that if you purchased online at www.bn.com.
*****You will not find previous editions of this textbook helpful to you during the program.*****

Recommended:
Marylynn Jacobs and Noelle Austin, Splinting the Hand and Upper Extremity: principles and process, Lippincott Williams &Wilkins, Philadelphia, 2002. **ISBN = 0-683-30630-8**
As you might agree, there is no perfect text on hand splinting, but the faculty like the organization of this text and thought it complemented the curriculum and the other required text. This book will be used in all 4 courses. You may purchase this book directly through LWW at www.lww.com. Also check Amazon and other websites for the best price. If you already have a general splinting textbook in your library, it is probably good enough to help you through the program. ***A new edition is expected soon.***

Magee D: Orthopedic Physical Assessment. 5th edition, Saunders Elsevier, ISBN =978-0-7216-0571-5. You could order this book from any book site including www. elsevier.com.

Financial Aid and Student Loans
All students enrolled in the *Certificate in Advanced Practice in Hand and Upper Quarter Rehabilitation* are considered part-time students in a non-degree program and are therefore **ineligible** for financial aid or traditional student loans. Students that attend the program are often eligible for full or partial tuition reimbursement from their employers. The Student Accounts office provides an employer assisted tuition plan to eligible students.
http://www.drexel.edu/bursar/SFS_ER_Information.html. Applicants are also encouraged to seek out non-traditional loan options such as student loans for non-traditional students or home equity loans.

The Evelyn J. Mackin Endowed Scholarship Fund

With her energy and vision, Evelyn devoted her life's work to the specialty of Hand Rehabilitation. The scholarship fund in her name will ensure her legacy. The scholarship benefits students of merit who wish to pursue the Advanced Practice Certificate in Hand and Upper Quarter Rehabilitation. Applicants for the scholarship must have a complete application by **July 1st** and submit their application for the scholarship by **August 1st.** Eligible students will receive an email shortly after July 1st with the scholarship information. The scholarship recipient will be notified by **September 1st.** Applicant must be a student that plans to complete all 4 courses in one year. The 2013 award will be $1500.00.

Hotel and Travel for Weekend Sessions
Detailed hotel information will be provided in the registration packet. With discounts, students have been able to find a hotel room for about $120.00. Although we are able to get some information on discounts, the student usually does better negotiating lower room rates since the program is not in a position to guarantee a block of rooms. For more information and to make reservations, visit http://www.drexel.edu/procurement/travel/hotels/. Weekend classes are held at the Center City Campus location (1505 Race Street, Philadelphia, PA, 19102).

Students will be able to travel to Philadelphia via plane, train, or automobile. The Amtrak train station and airport are a short cab ride away and public transportation is also available via train, subway, or bus. Directions for traveling by car and other modes of transportation will be provided prior to the start of the program.

Application Requirements
It is recommended that prospective students have at least two years of experience as an occupational therapist or physical therapist. No previous experience in hand therapy is required. The following items must be submitted along with the completed Drexel University application:

- 2 letters of recommendation (see below)
- Official transcripts from **all** colleges/universities attended
- One-page essay expressing why you want to enroll in the program
- Copy of current US OT or PT license (or registration for OT's in certain states)
- Resume
- $75.00 application fee (check made payable to Drexel University) which is waived application is completed online
- GREs are not required for the Certificate in Advanced Practice in Hand and Upper Quarter Rehabilitation.

For letters of recommendation: You are not required to use a specific form. A free form letter that outlines your personal qualities as a clinician and insight into your academic abilities would be the most helpful. You may submit letters from co-workers including OTs, PTs, CHTs, surgeons, or other healthcare professionals. Letters of recommendation from supervisors or academic faculty are encouraged. Recommenders may complete the online recommendation process associated with the online application form or they may submit letters of recommendation on letterhead of place of affiliation to the address below.

Note: Applicants that attended school outside the United States and all international applicants have additional application requirements indicated below. This information is also available on the Admissions website.
Paper applications (along with $75 fee) and all supporting materials (if apply online) should be submitted to:

Domestic Mail
Drexel University
Application Processing
PO Box 34789
Philadelphia, PA 19101

International Mail
Drexel University
Application Processing
3141 Chestnut Street
Philadelphia, PA 19104-2876

Application Deadline: Rolling admissions process continues until class is filled. Space is limited to 30 students. Applicants must begin enrollment in the Fall Quarter since PTRS 767 Foundations in Hand Therapy is a prerequisite course for the other three courses. It is recommended that applicants initiate the application process in April.
All applications must be completed by August 1st.

Requirements for Applicants that Attended School Outside the US and All International Applicants

Please review the Admission Application Checklist to see what applies to your situation using the link below.

http://www.drexel.edu/em/apply/cnhp/checklist.html

Transcripts for students that attended school outside the United States:
Applicants must have their transcripts evaluated by an approved agency. Official copies must be submitted. Photocopies will not be accepted. Therefore, if you have had this done to get your US license, you will need to repeat the process if the transcript evaluation company no longer has your official records (usually more than 3 years). One of these companies must be used and WES is preferred.

World Education Services, Inc. (WES)
Bowling Green Station, P.O. Box 5087
New York, NY 10274-5087
212-966-6311

International Consultants of Delaware, Inc.
PO Box 8629
Philadelphia, PA 19101-8629
215-222-8454, ext. 603

Commission on Graduates of Foreign Nursing Schools
3600 Market St., Suite 400
Philadelphia, PA 19104-2651
215-349-8767

Educational Credential Evaluators
PO Box 51470
Milwaukee, WI, 53203-3470
414-289-3400

Note: Although it is preferred that you use one of the transcript evaluation companies listed above, if you require expedited service you may find Evaluation World helpful. Please visit http://www.evaluationworld.com**.**

TOEFL OR IELTS Scores: Applicants who have not received a degree in the United States are required to take the Test of English as a Foreign Language (TOEFL). An official score report must be sent directly from the Educational Testing Service (ETS); photocopies will not be accepted. If the applicant attended school in a country where English is considered the primary language such as the UK, Australia, and Canada TOEFL scores may be waived. Waiver of this requirement will be handled on a case by case basis. **International English Language Testing System (IELTS) scores may be used in place of TOEFL scores.**

Applicants without a US Therapy License

International applicants will only be considered if they have qualified credentials as specified by the Hand Therapy Certification Commission for the international CHT credential.

Please visit the website for Certificate in Advanced Practice in for Hand and Upper Quarter Rehabilitation at http://www.drexel.edu/physicalTherapy/programs/handRehab/

Revised: March 2013