



CURRICULUM VITAE

Daniel Cipriani
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Department of Physical Therapy
Chapman University
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Education: The University of Toledo
Toledo, OH
1999-2003
Applied Measurement and Statistics
Ph.D. (2003)

The University of Toledo
Toledo, OH
1987-1992
Applied Biomechanics (Exercise Science)
M.S. (1992)

The Ohio State University
Columbus, OH
1980-1984
Physical Therapy
B.S. (1984)

Licensure Information/Registration Number:

Licensed Physical Therapist (Ohio PT5642)

Certifications (eg, ABPTS):

None

Employment and Positions Held:

Faculty
Associate Professor
Tenured
Department of Physical Therapy
College of Sciences
Chapman University
Orange, CA
2010 – present

Faculty
Associate Professor
Tenured
School of Exercise Science
San Diego State University
San Diego, CA
2005-2010

Faculty
Assistant Professor
Tenure-track
Department of Physical Therapy
College of Health Sciences
University of Toledo (formerly Medical College of Ohio)
Toledo, OH
1991-2005

Physical Therapy Clinician
Part-time
Physical Therapy Outpatient Department
Medical College of Ohio
Toledo, OH
1991 – 2003

Physical Therapy Clinician
Assistant Director
Gary Gray Physical Therapy Clinic, Inc.
Adrian, MI
1987-1991

Physical Therapy Clinician
The American Physical Rehabilitation Network
Outpatient Services
Toledo, OH
1985-1987

Physical Therapy Clinician
Physical Therapy In/Out patient services
Blodgett Memorial Medical Center
Grand Rapids, MI
1984-1985

Peer Reviewed Publications:

2013

Unfried B, Arginaldo A, Cipriani D (2013). Running on a cambered surface: influence on lower extremity muscle activity as measured with electromyography. J Applied Biomechanics, 29:421-427.

Murray N, Cipriani D, O'Rand D, Reed-Jones, R (2013). Effects of Foot Position during Squatting on the Quadriceps Femoris: An Electromyographic Study. International J of Exer Science, 6(2): 114-125.

Trone DW, Cipriani D, Raman R, Wingard DL, Shaffer RA, Macera CA (2013). The association of self-reported measures with poor training outcomes among male and female U.S. Navy recruits. Military Medicine, 178 (1): 43-49.

2012

Cipriani D, Darr F, McPeck D, Kubec G, Thomas J (2012). Rating scale analysis and psychometric properties of the Caregiver Self Efficacy Scale for Transfers. Physical and Occupational Therapy in Pediatrics, 32(4): 404-415.

Cipriani D, Terry M, Haines, M, Tabibnia A, Lyssanova O (2012) Effect of stretch frequency and sex on rate of gain and rate of loss in muscle flexibility during a hamstring stretching program: a randomized single-blind longitudinal study. J Str Condit Res, 26(8): 2119-29

Parry J, Straub R, Cipriani D (2012). Shoulder and back muscle activation during shoulder flexion and abduction using a Bodyblade Pro vs. dumbbells. J Sport Rehabil, 21: 266-272.

Straub R, Cipriani D (2012). Influence of Infra-patellar and Supra-patellar Straps on Quadriceps Muscle Activity and Onset Timing during the Body-weight Squat. J Str Condit Res, 26(7): 1827-1837

2010

Rancour J, Terry M, Holmes C, **Cipriani D (2010)**. Superficial precooling on a 4-week static stretching regimen: a randomized trial. Sports Health: A Multidisciplinary Approach, 2(5): 433-436.

King J, **Cipriani D (2010)**. Effects of frontal and sagittal plane plyometric training on vertical jump height in high school basketball players. J Str Condit Res, 24(8), 2109-2114.

May C, **Cipriani D**, Lorenz K (2010). Power development through complex training for the Division I collegiate athlete. Str and Condit J, 32(4): 30-43.

2009

Rancour J, Holmes C, **Cipriani D (2009)**. Influence on stretch frequency on range of motion retention in the hamstring. J Str Condit Research, 23(8): 2217-2222.

Cipriani D, Haines M, O'Rand D, Levy S (2009). Reliability and validity of a lower extremity partial weight bearing performance measure. International J of Sports Phys Ther, 4(2): 49-59.

2007

Cambell B, **Cipriani D**, Yaggie J (2007). Influence of a functional knee brace and exercise on lower extremity kinematics during jogging. Clinical Kinesiology, 61(2): 7 – 13.

Cannon DT, Kolkhorst FW, **Cipriani DJ (2007)**. Electromyographic data do not support a progressive recruitment of muscle fibers during exercise exhibiting a VO2 slow component. J Physiol Anthropol 26(5): 541-546.

Thomas J, Shuford D, Duke J, **Cipriani D (2007)**. Development and Psychometric Properties of the Self-Efficacy Scale for Transfers for Caregivers of Children Requiring Transfer Assistance Archives of Physical Medicine and Rehabilitation, 88(4): 481-488.

Cannon D, Grout S, May C, Strom S, Wyckoff K, **Cipriani D**, Buono M (2007). Recruitment of the Serratus Anterior as an accessory muscle of ventilation during graded exercise. J Physiologic Sciences, 57: 127-131.

Cannon D, Kolkhorst F, **Cipriani D (2007)**. Effects of pedaling position on muscle activity and cycling efficiency. European J of Applied Physiology, 99: 659-664.

Cipriani D, Noftz, J (2007): Utility of Orthopedic Clinical Tests for Diagnosis. In, Scientific Foundations and Principles of Practice in Musculoskeletal Rehabilitation (Edited by Magee, Zachazewski, and Quillen. WB Saunders, Philadelphia PA), 557-567.

Cipriani D, Falkel, JE (2007): Physiologic Principles of Resistance Training and Functional Integration for the Injured and Disabled. In: Scientific Foundations and Principles of Practice in Musculoskeletal Rehabilitation (Edited by Magee, Zachazewski, and Quillen. WB Saunders, Philadelphia PA), 432-457.

2006

Masterson M, Morgan A, Multer C, **Cipriani D (2006)**. The role of lower leg muscle activity in blood pressure maintenance of older adults. J Clinical Kinesiology, 60(2): 8-17.

Campbell B, Yaggie J, **Cipriani D (2006)**. Temporal influences of functional knee bracing on torque production of the lower extremity. J Sports Rehabilitation, 15: 216-227.

2005

Cipriani D, Fox C, Khuder S, Boudreau N (2005). Comparing Rasch Analyses Probability Estimates to Sensitivity, Specificity and Likelihood Ratios when Examining the Utility of Medical Diagnostic Tests. Journal of Applied Measurement 6(2): 180-201.

2003

Cipriani D, Abel B, Pirwitz D (2003). A comparison of stretching protocols: effects of total time stretching. Journal of Strength and Conditioning Research, 17(2): 274-278.

2002

Nelson D, **Cipriani D**, Thomas J. (2002) Physical therapy and occupational therapy: partners in rehabilitation for persons with movement impairments. Occupational Therapy in Health Care, 15 (3/4), 35-57.

2001

Beltyukova S, **Cipriani D**, Yan S, Ughrin T, & Fox C. (2001) Predicting driver ability in the elderly: a Rasch Regression model. Rasch Measurement Transactions, 15(5): 789-790.

Li S, Armstrong C, **Cipriani D**. (2001) Three-point gait crutch walking: variability in ground reaction forces during weight bearing. Archives of Physical Medicine and Rehabilitation, 82: 86-92.

1999

Bulthaupt S, **Cipriani D**, Thomas J. (1999) An electromyography study of wrist extension orthoses and upper- extremity function. The American Journal of Occupational Therapy, 53(5): 434-440.

Duscha B, **Cipriani D**, Roberts C (1999) A review of open vs. closed kinetic chain exercise for lower extremity rehabilitation. Clinical Exercise Physiology, 1(2): 57-63.

1998

Cipriani D, Swartz J, Hodgson C. (1998) Triathlon and the multisport athlete. Journal of Orthopaedic and Sports Physical Therapy, 27(1): 42-50.

1997

Munich H, **Cipriani D**, Hall C, Nelson D, Falkel J. (1997) Test re-test reliability of an inclined squat strength test protocol. Journal of Orthopaedic and Sports Physical Therapy, 26(4): 209-213.

1996

Falkel, JE, **Cipriani, DJ**: "Physiologic Principals of Resistance Training and Rehabilitation" In: Athletic Injuries and Rehabilitation, Edited by Zachazewski, MaGee, and Quillen. WB Saunders, Philadelphia PA, pp.206-228, 1996.

1995

Cipriani, D., Armstrong C., Gaul S. (1995) Backward walking at three different levels of treadmill inclination: an EMG and kinematic analysis. J Orthop and Sports Phys Ther, 22(3):95-102.

1994

Cipriani, DJ. "Open and closed kinetic chain rehabilitation of the shoulder." In: The Athlete's Shoulder (Andrews, J. and Wilk, K. editors). Churchill Livingstone, New York, NY, pp. 577-588, 1994.

Published Abstracts of Peer Reviewed Presentations:

Black T, Messick B, **Cipriani D** (2010). Segmental limb length and vertical jump height performance. J Strength Conditioning Research, 24: S1

Marshall Z, **Cipriani D** (2009). Reliability and responsiveness of a gait measure for individuals with low back pain. J Orthop Sports Phys Ther, 39: A99

Cannon D, Grout S, May C, Strom S, Wyckoff K, **Cipriani D**, Buono M (2007). Recruitment of Serratus Anterior in ventilation during graded cycling (2007). Med Sci Sports Exer, 39(5): s344.

Campbell B, **Cipriani D**, Elwell M, Dauch N, Yaggie J (2007). The influence of knee and ankle bracing on lower extremity kinematics during a cutting maneuver. Medicine and Science in Sports and Exercise, 39(5 suppl): S478.

Rancour, JL, **Cipriani D** (2006). The Influence of Superficial Pre-cooling on a Static Stretching Regimen: A Randomized Trial [abstract]. Journal of Orthop and Sports Phys Ther. 36 (1): A23.

Campbell, B, Armstrong, C, **Cipriani, D** (2002). Influence of time on the torque reducing capabilities of a functional knee brace. Gait and Posture, 16,

Campbell, B, Armstrong, C, **Cipriani, D** (2002). Influence of a Functional Knee Brace on Lower Extremity Kinetics: A Preliminary Study. Medicine and Science in Sports and Exercise, 34:5 Supplement

Cipriani, DJ, Armstrong, CW, Gaul, S (1993). Backward walking at three levels of treadmill inclination: an EMG and kinematic analysis. *Physical Therapy*, 73(6:suppl.): S34

Peer Reviewed Scientific and Professional Presentations (those not previously cited above under abstracts):

Unfried B, Arginaldo A, **Cipriani D** (2012). Running on a cambered surface: influence on lower extremity muscle activity as measured with electromyography. Noraxon Research Symposium: EMG, Gait, and Kinesiological Applications. Invited to present, Las Vegas, NV.

Freeman JA, Guy AR, Rader AD, Grant-Beuttler M, **Cipriani D** (2012). A comparison of functional outcomes using the Toe-Off ankle-foot orthosis in a healthy adult population: a pilot study. Combined Sections Meeting of the American Physical Therapy Association, Chicago IL, February, 2012.

Cipriani D, *Kingsbury T* (2010). Exergame systems and dynamic balance in elderly individuals. American Physical Therapy Association National Conference, Indianapolis IN, June 2010.

Marshall S, Nicaise V, Lorenz K, Kingsbury T, Caparosa S, Robusto C, **Cipriani D**, Nicols J (2010). Old dogs and new tricks: a qualitative study of older adults' experience with Exergames. Annual Meeting, Society of Behavioral Medicine, Seattle WA (April)

Black A, *Messick B*, **Cipriani D** (2009). Influence of limb length on vertical jump ability in healthy adults. National Strength and Conditioning National Conference, Las Vegas NV, July, 2009.

Marshall Z, **Cipriani D** (2009). Responsiveness of the GAITRite to for temporal and spatial parameters of gait in individuals with lower back pain. Accepted: The American Physical Therapy Association, Combined Sections Meeting, Las Vegas NV, February, 2009.

Cannon D, *Grout S*, *May C*, *Strom S*, *Wyckoff K*, **Cipriani D**, *Buono M* (2007). Recruitment of Serratus Anterior in ventilation during graded cycling (2007). American College of Sports Medicine, New Orleans, 2007.

Rancour, JL, **Cipriani D** (2006). The Influence of Intermittent Stretching on a Static Stretching Regimen: A Randomized Trial. The American Physical Therapy Association, Ohio Chapter Meeting, Columbus OH, November 2006 (platform).

Cipriani D. Evidence based Tai Chi in physical rehabilitation and sports medicine. Middletown Regional Sports Medicine Symposium. Cincinnati OH, July, 2006

Cipriani D. Validity evidence of a partial weight bearing performance test of the lower extremity: concurrent validity and responsiveness to change. American Physical Therapy Association's Combined Sections Meeting, February, CA 2006 (platform)

Rancour, JL, **Cipriani D**. The Influence of Superficial Pre-cooling on a Static Stretching Regimen: A Randomized Trial. The American Physical Therapy Association, CSM, Feb, 2006, CA (platform).

Noone B, **Cipriani D**, *Tobe S*. Validity evidence of a lower extremity performance test: sensitivity to change. American Physical Therapy Association National Conference, June, 2005 (poster)

Cipriani, D. Recognizing quality research and the importance of randomized clinical trials in physical therapy. Ohio Physical Therapy Association's Northwest District Meeting (Keynote speaker), Findlay University, Findlay OH, March, 2005.

Cipriani, D. Evidence based practice with Tai Chi. Presented at the Ohio Physical Therapy Association, October 15, 2004, Columbus OH.

Fisher, J and **Cipriani D** Plyometric training: optimal depth jump height. Presented at the NW District of the Ohio APTA, June, 2004.

Gellar, M and **Cipriani D** Use of cold application to facilitate muscle stretching. Presented at the NW District of the Ohio APTA, June, 2004.

- Benesh, S* and **Cipriani D**. Duration of stretching effects over time: a pilot study. Presented at the NW District of the Ohio APTA, June, **2004**.
- Spradlin, P* and **Cipriani D**. Intermittent stretching to maintain gains during a standard stretching program. Presented at the NW District of the Ohio APTA, June, **2004**.
- Tobe, S* and **Cipriani D**. Validity of a Lower Extremity Performance test to measure change scores in patients. Presented at the NW District of the Ohio APTA, June, **2004**.
- Gilbert, G* and **Cipriani D**. Concurrent Validity of a Lower Extremity Performance test to measure function in patients with lower extremity injuries. Presented at the NW District of the Ohio APTA, June, **2004**.
- Pollecek, A* and **Cipriani D**. Validity of a lower extremity functional performance test when compared with self-reported activity levels. Presented at the NW District of the Ohio APTA, June, **2004**.
- Wagner H, Cipriani D (2003)*. The incidence of ankle sprains in high school basketball players: influence of arch height. Presented at the Ohio Physical Therapy State conference, October, **2003**.
- Campbell B, **Cipriani D**, Armstrong C (**2003**). The Influence of a Functional Knee Brace and Exercise on Lower Extremity Kinematics During Jogging, presented at the 2003 Gait and Clinical Movement Analysis Society National Meeting, Delaware.
- Campbell B, Armstrong C, **Cipriani D (2002)**. Influence of a Functional Knee Brace on Lower Extremity Kinetics: A Preliminary Study. Accepted for the 49th Annual Meeting of the American College of Sports Medicine Conference, St. Louis, Missouri. , June 2002.
- Campbell B, Armstrong C, **Cipriani D (2002)**. Influence of Time on the Torque Reducing Capabilities of Functional Knee Brace. Accepted for Gait and Posture Annual Conference, Chattanooga TN, March, 2002.
- Cipriani D**, Messaros A, Lee A, and Bork C (**2000**). "The research track for an Entry-level Master's Degree program in Physical Therapy." 2000 Joint Statistical Meeting, Section on Teaching of Statistics in the Health Sciences. August 13-17, 2000, Indianapolis, Indiana (platform).
- Cipriani D, Abel B, Pirwitz D, (2000)**. "Two methods of stretching for hamstring flexibility." American Physical Therapy Association, Ohio Chapter Annual Meeting, Columbus OH March, 2000
- Cipriani D, Klaserner J, Sykes J, Golias B (1999)**. "Validity of a lower extremity functional test profile." American Physical Therapy Association, Ohio Chapter Annual Meeting, Columbus OH April, 1999. (platform)
- Yoakam C, Broaddus A, Wilson A, Cipriani D, Andres F, Woolley S (1997)*. "An analysis of shoulder muscles during the bench press exercise with barbells and dumbbells: an EMG study." American College of Sports Medicine, Midwest Annual Conference, Fort Wayne IN, October 9, 1997
- Wiles L, Comer E, Stocker K, Cipriani D (1997)*. "An EMG analysis and comparison of the rectus abdominus and sternocleidomastoid muscles during two different abdominal exercises." American Physical Therapy Association, Ohio Chapter Annual State Conference, Columbus OH, April 17, 1997 (platform)
- Meldrum R, Suter M, Burdette M, Cipriani D (1996)*. "The effects of subtalar joint position on Q-angle" American Physical Therapy Association, Ohio Chapter Annual State Conference. Columbus, OH April 19, 1996 (platform)
- Cipriani D, Hall C, Munich H (1995)**. "Test-retest reliability of a incline strength test protocol." American Physical Therapy Association, Ohio Chapter Annual State Conference. Columbus, OH April 7, 1995 (Platform)
- Volkerding T., Cipriani D., Armstrong C., Nelson D (1994)*. "Erector spinae and rectus femoris muscle activity during two methods of squatting exercise." Ohio State Conference, American Physical Therapy Association. Columbus, OH, April 28, 1994 (Platform).

Siguenza A., Sneider S, Cipriani D, Nelson D (1994). "Test-retest reliability of closed chain lower extremity strength testing using the Total Gym." Ohio State Conference, American Physical Therapy Association. Columbus, OH, April 28, 1994 (Platform).

Squires A, Cipriani D, Armstrong C (1994). "EMG activity of the vastus medialis oblique during three different levels of treadmill backward walking." Ohio State Conference, American Physical Therapy Association. Columbus, OH, April 28, 1994 (Platform).

Bierly D, Cannarozzi W, Cipriani D, Nelson D (1994). "The efficacy of using the Bodyblade to strengthen the shoulder internal and external rotators." Ohio State Conference, American Physical Therapy Association. Columbus, OH, April 28, 1994 (Platform).

Cipriani D, Armstrong C, Gaul S (1993). "Backward walking at three levels of treadmill inclination: a kinematic analysis." National Conference, American Physical Therapy Association. Cincinnati, OH (Poster).

Cipriani D, Armstrong C, Gaul S (1993). "An EMG analysis of backward walking at three levels of treadmill inclination" Ohio State Conference, American Physical Therapy Association. Columbus, OH (Platform).

Non-Peer Reviewed Publications:

Cipriani D (2013). Barefoot running: implications for coaches and trainers. *Training and Conditioning*, 23(5):25-31.

Caparosa S, Nichols J, Marshall S, **Cipriani D**, Kingsbury T, Lorenz K, Robusto K, Nicaise V (2011). Exergaming: not just for kids anymore. ACE-Sponsored Research. The American Council on Exercise. www.acefitness.org.

Cipriani D (2006). Pulling through: new approaches to preventing hamstring injuries. *Training and Conditioning*, 16(9), 13-19.

Cipriani D, Greist J (2002). The ABCs of PFD: A multi-faceted approach to patello-femoral joint rehabilitation. *Training and Conditioning*, 12(3): 23-27

Cipriani, D (1998/1996). Rehabilitation of the upper extremity: combining clinical perspectives. *Physical Therapy Products*, 9(5): 56-59.

Cipriani D, Neiport S. (1997) When the Shoulder Shifts. *Training and Conditioning*, 7(4): 43-49

Cipriani, D. (1997) Safe Swimming for the Shoulder. *Master's Sports*, 7(2): 3.

Cipriani, D. (1996) Twist and Turns: A Guide to Ankle Rehabilitation. *Training and Conditioning*, 6(6): 32-36

Cipriani, D. (1996) Bad Knees or Bad Advice? Legwork Made Safer. *Master's Sports*, 6(12): 6.

Cipriani, D. (1996) Let's Stop Beating up on Ballistics. *Master's Sports*, 6(10): 1-7

Cipriani DJ, and Vermillion R. (1995) Knee rehabilitation: the challenge of function. *Training and Conditioning*. 5(5): 15-24

Cipriani, DJ. (1994) "Shifts in shoulder rehabilitation." *Training and Conditioning*. 4(4): pp. 23-30

Cipriani, DJ. (1994) "Reshaping the Athlete's Back." *Masters Sports*. 4(10): pp. 1-6

Cipriani, DJ. (1994) "Safe at the shoulder." *Athl Managemt*. 6(5): CM13-CM21

Falkel JE, **Cipriani DJ**, Cowley TL. (1994) "Functional testing grids: a tool for evaluation and training of functional movements." *Phys Ther Products* September: 53-59

Voelkerding TL, **Cipriani DJ**, Nelson DL, Armstrong CW. (1994) "A closer look at squatting exercises: standing vs. inclined." Phys Ther Products, September: 69-72

Non-Peer Reviewed Presentations:

- Cipriani D** (2013). The biomechanics and functional implications of lower extremity kinematics and kinetics, related to overuse injuries and injury pathology: implications for conservative intervention. Presented at The Functional Foot and its Impact on the Lower Extremity, Phoenix AZ (March) and Salt Lake City UT (April) (15.5 CEU awarded)
- Cipriani D** (2012). The biomechanics and functional implications of lower extremity kinematics and kinetics, related to overuse injuries and injury pathology: implications for conservative intervention. Presented at The Functional Foot and its Impact on the Lower Extremity, Albuquerque, NM, October, 2012 (15.5 CEU awarded)
- Cipriani D** (2012). The biomechanics and functional implications of subtalar joint integrity for gait and orthotic intervention. Presented at The Functional Foot and its Impact on the Lower Extremity, Portland OR, Sponsored by PESI HealthCare, April, 2012 (12.0 CEU awarded)
- Cipriani, D** and Yoakam C (2012). The functional foot and its impact on the lower extremity. Sacramento CA, sponsored by PESI HealthCare, April, 2012 (12.0 CEU awarded).
- Cipriani, D** and Yoakam C (2012). The functional foot and its impact on the lower extremity. San Francisco CA, sponsored by PESI HealthCare, March, 2012 (12.0 CEU awarded).
- Cipriani, D** and Yoakam C (2011). Strategies to Treat Lower Extremity Musculoskeletal Dysfunction: Focus on Foot/Ankle Complex Contributions. Livingston Health Care, Livingston Montana (15.5 CEU), June 11-12.
- Cipriani, D.** Biomechanics of human muscle function for exercise. GAIN Workshop, apprenticeship for coaches and trainers. Sunrise, Florida, July, 2008 and 2009.
- Cipriani, D.** Biomechanics and Kinesiology of the lower extremities, spine, and shoulder complex. Science of Orthotics and Prosthetics, San Juan, Puerto Rico, July, 2006 (20.0 CEU).
- Cipriani, D.** The importance of randomized clinical trials in physical rehabilitation and sports medicine. Middletown Regional Sports Medicine Symposium, Cincinnati OH, July, 2006 (1.0 CEU)
- Cipriani, D.** Biomechanical examination of the lower extremity: focus on overuse injuries. Middletown Regional Sports Medicine Symposium, Cincinnati OH, July 2006 (2.0 CEU)
- Cipriani, D.** Advanced topics in locomotor biomechanics: orthotic intervention for the overuse injury. Presented at Livingston Rehabilitation Center, Livingston MT, May, 2006 (12.0 CEU's).
- Cipriani, D.** Prescription of orthotics for the foot/ankle: biomechanical perspective. Presented at Physical Therapy Services, Findlay OH, June, 2005 (7.0 CEU's).
- Cipriani, D.** Movement Science of the lower extremity, spine, and shoulder girdle. Presented at the Science in Orthotics and Prosthetics course, November 5-7, 2004, Chicago IL (20 hours)
- Cipriani, D.** Overuse injuries in sports: a biomechanical perspective. Presented at the 5th Annual Sports Medicine Symposium, Middletown Regional Health Center, July 16, 2004 (approved for 3 CEU's)
- Cipriani, D.** Biomechanical evaluation of the lower extremity for the care and treatment of overuse injuries in the orthopaedic setting. Presented for Physical Therapy Services, Inc., Tiffin, OH, April, **2004** (Approved for 7.0 CEU's, Ohio Physical Therapy Association 04S1335)
- Cipriani, D.** Orthotic intervention in the treatment of overuse injuries in the athlete. The Medical College of Ohio, Toledo OH, February 21, **2004** (Approved for 7.0 CEU's Ohio Physical Therapy Association: 04S1162)
- Cipriani, D.** Biomechanics of Gait and Applied Gait in the Subacute Rehabilitation Setting. Presented for LakePark Rehabilitation Center, Sylvania OH, August, **2003** (Approved for 3.0 CEU's, Ohio Physical Therapy Association).
- Cipriani, D.** Orthopaedic Rehabilitation of the Lower Extremity: Understanding Biomechanical and Gait concepts for rehabilitation strategies. Presented for Physical Therapy Services, Inc., Tiffin, OH, February, **2003** (Approved for 7.0 CEU's, Ohio Physical Therapy Association)
- Cipriani, D.** Abnormal Foot Types and the Compensations. Presented at the Ohio Physical Therapy Association, Annual State Conference, Student Conclave, Columbus OH, March, **2000** (2 hours).

- Cipriani D.** Orthopaedic Injuries of the Foot and Ankle. Presented at Health Care Horizons: A Primary Care Conference. First Annual Medical College of Ohio Conference for Advanced Practice Nurses and Physician Assistants. The Medical College of Ohio, Toledo, Ohio. October 1, **1999**. (1 hour)
- Cipriani D.** Applied Biomechanics. Functional Testing of the Lower Extremity. Presented at A Lower Extremity Workshop: Functional Anatomy and Testing Methods. The University of Findlay, September 10, **1999** Approved for 7.0 CEU's (Ohio Physical Therapy Association).
- Cipriani D.** Orthopaedic Rehabilitation of the Lower Extremity. Concorde Therapy Group, Canton OH. Approved for 8.0 CEU's (Ohio Physical Therapy Association), March 12-13, **1999**
- Cipriani D.** Clinical Research Issues. Presented at the West Central District Ohio Physical Therapy Association, Dayton OH, February 17, **1999**
- Cipriani D, Kujawa D.** Lower Extremity Rehabilitation. Professional Skills Institute of Toledo, Ohio. Approved for 7.0 CUE's (98s474), Ohio Physical Therapy Association. September 26, **1998**.
- Cipriani D.** Clinical Research: Understanding research validity. Presented at the Northwest District Ohio Physical Therapy Association, November 8, **1998**.
- Cipriani D.** Biomechanics of the Lower Extremities: Evaluation and Treatment -- an Orthotics Perspective. Meridia Hillcrest Hospitals of Cleveland, OH, at Cleveland OH (12.25 CEU's -- State of Ohio Physical Therapy Association: 97S422): November 8-9, **1997**.
- Cipriani D, Nofzt J.** Rehabilitation of the lower extremities: a biomechanical perspective. P/S/B Educational Services Inc. (Cincinnati, OH) in Indianapolis IN (8.0 CEU's -- State of Ohio Physical Therapy Association): September 27, **1997**.
- Cipriani D.** Exercise in Orthopaedics Seminar -- Multidisciplinary Approach. Continuing Education Network (Richmond, VA), 13 CEU's.
San Antonio TX: March 1-2, **1997**
Williamsburg, VA, July 13-14, **1996**.
Atlantic City, NJ, April 27-28, **1996**.
Hilton Head, SC, Feb. 9-10, **1996**.
"New approaches to strength training for clinicians"
"Lower extremity mechanics and pathomechanics"
"Foot and ankle rehabilitation"
"Knee rehabilitation"
- Cipriani D, Nofzt J.** Rehabilitation of the lower extremity: a biomechanical perspective. P/S/B Incorporated (Cincinnati, OH) at the University of Cincinnati - Ohio, October 26, **1996** (approved for 8.0 CEU's by The Ohio Chapter of the APTA)
- Cipriani D, Nofzt J.** Lower extremity functional evaluation and rehabilitation. Kansas City, MO, BI-STATE Medical Corporation and the Kansas Physical Therapy Association. March **1996** 7.0 CEU's for KPTA and 0.7 CEU's for NATA.
- Cipriani D, Nofzt J, Roberts, C.** Rehabilitation of the upper and lower extremities: A biomechanical perspective. Youngstown State University and Access Physical Therapy, Youngstown, OH, October 27-28, **1995** (13.75 CEU's by State of Ohio)
- Cipriani D, Roberts C.** Biomechanics of the upper extremity: functional testing and rehabilitation implications. Sports Rehabilitation and Physical Therapy, Associates, Kansas City, MO, June 8, **1995**.
- Cipriani D, Nofzt J.** Functional Testing and Rehabilitation of the Lower Extremities. Engineering Fitness International (San Diego, CA) approved for 12.0 CEU's, State of Ohio):
Baltimore, Maryland, May 13 and 14, **1995**
Toledo, OH. April 22-23, **1995**
San Diego, CA, Dec. 3-4, **1994**.
Chicago, IL, Nov. 19-20, **1994**.
- Cipriani D, Nofzt J.** Lower Extremity Biomechanics: Evaluation and Treatment. The American Physical Therapy Association, Ohio Chapter Annual State Conference. Columbus, OH. April 5-6, **1995**. (12.0 CEU's awarded by Ohio State PT/OT/ATC Licensing Board; #01145)
- Cipriani D, Nofzt J.** Biomechanics of the Lower Extremity: Rehabilitation and Testing. Mississippi Physical Therapy Association, annual winter conference, Laurel, MS, January 13-15, **1995**; (8.75 CEU's awarded by Mississippi Physical Therapy Association).
- Humphries R, **Cipriani D, Jewell D.** The Role of Exercise in Rehabilitation. The Continuing Education Network (Richmond, VA). Williamsburg, VA, Feb. 17-19, **1995**. (Course approved for 1.9 CEU's, state of Virginia)

- Gray G, **Cipriani D**, Gambetta V, Holmes C. Scapuloreaction: Shoulder Chain Reaction for Upper Extremity Rehabilitation. The Medical College of Ohio at Toledo, OH, May, **1994**
University of Texas, Health Science Center, San Antonio, TX October, **1994**
- Cipriani D**, Hartman B. Testing and Rehabilitation of the Lower Extremity. The Continuing Education Network, Inc., Columbus, OH; Nov. 5, **1994**. (8.0 CEU's – Ohio Chapter, APTA 00948).
- Cipriani D**, Woolley S, Armstrong C, Masterson M. Gait-Abilitation: A basic approach to lower extremity rehabilitation. The Medical College of Ohio, School of Allied Health. (Course Chairperson and presenter) April 23-24, **1994** (10.5 CEU's approved, state of Ohio)
- Cipriani D**. Biomechanical evaluation and treatment of the lower extremity. Flower Memorial Hospital, Toledo, OH. March 20 and 27, **1994**. (14 CEU's approved, state of Ohio - 01107)
- Cipriani D**, Noftz J, Hartman B. Biomechanical evaluation and treatment of the foot and ankle. Concorde Therapy Group, Inc., Canton, OH. November 12 and 13, **1993**. (14 CEU's approved, state of Ohio - 01107).
- Malone T, **Cipriani D**. Biomechanics and Rehabilitation of the Lower Extremity. The Medical College of Ohio's Physical Therapy Alumni Association Annual Meeting. October 2, 1993.
- Cipriani D**. Exercise in Orthopaedics: A Multidisciplinary Approach to Theory, Application and Practice. "Early Clinical Exercise," "Closed Chain Exercise," "Workshop on Applying Closed Chain Exercises," "Lower Extremity Exercise Applications." Meeting Planners, Inc. at Virginia Beach, VA, June 3-6, **1993** (19 CEU's, State of Virginia Physical Therapy Association).
- Cipriani D**. Closed Chain Biomechanics of LE: Rehabilitation Implications (8 hours). AT: Exercise in Orthopedics. Meeting Planners, Inc. Stuart, FL, July 9-12th, **1993**.
- Cipriani D**. Open Kinetic Chain Specific Rehabilitation of the Shoulder, AT: Challenge of the Shoulder: A Multidisciplinary Approach. Seattle, WA, May **1992**
Ft. Lauderdale, FL, August, **1991**
- Gray G, **Cipriani D**, Gambetta V, Waters G, Fisher S. Dumbbells-R-Smart: Clinical Applications of Free Weights for Testing and Rehabilitation. Co-developer, Wynn Marketing, Inc. Chicago, IL November, **1991** (15 hours)
- Cipriani D**, Waters G, Fisher S. Biomechanics of the Lower Quarter, The Ohio State University, Columbus, OH, one day, May, **1991**
- Gray G, **Cipriani D**. Open Kinetic Chain Specific Rehabilitation of the Shoulder. AT: The Challenge of the Shoulder: A Multidisciplinary Approach. Meeting Planners Inc (Richmond, VA)
Virginia Beach, VA, May, **1990** (2 hours)
Lake Tahoe, Nevada, March, **1990** (2 hours)
Virginia Beach, VA, May, **1989** (2 hours)

Funded/In Review Grant Activity:

- Marshall S, Nicols J, **Cipriani D**, Caparosa S. (**2008-2009**) Exergames for improving the health and functional fitness of older adults while maximizing enjoyment and minimizing risk. Marshall, PI. Funded, \$15,000.00, American Council on Exercise.
- Cipriani D (2007)**. Optimal stretching protocol for retention of range of motion following the cessation of a flexibility stretching program. Funded \$10,800.00. American Council on Exercise
- Cipriani D (2007)**. Reliability and responsiveness of a gait measurement device for patients with lower back pain. Funded. \$6433.00, University Grants Program, San Diego State University.
- Maceras C, Levy S, **Cipriani D (2006)** Principal Investigator. Grant application. "Evaluation of Walk with Ease Program" Center for Disease Control: three year funded study at \$250,000/year. **Not** funded.
- Cipriani D (2004)** Use of pre-cooling on the effectiveness of stretching exercises for gains and maintenance. Awarded \$268.00, School of Allied Health and Nursing Research Grant Award. Accurate Therapeutics Manufacturing, South Carolina.

Cipriani D, Benesh S, Spradlin P, Geller M (2003 - 2004). Examining factors that affect stretching effectiveness. Funded, \$6000.00, Koroshi, Inc., Toledo, OH.

Cipriani D, Goitz H (2003). Influence of fatigue on knee joint proprioception. Equipment grant of \$2800.00. Engineering Fitness International, San Diego CA.

Cipriani D. (2003-2004) Validity studies for the Total Gym lower extremity performance tests. Funded \$1875.00, Engineering Fitness International, San Diego, CA.

Nelson DL, Kuder SA, and **Cipriani D. (2000 – 2004)** Testing a functional approach to subacute rehabilitation. Department of Health and Human Services, Public Health Service, NICHD Small Grants Program. Funded, \$288,000.00 for budget period (2 years).

Georgiadis G, **Cipriani D**, Campbell B, Armstrong C. (2001) Energy expenditure and biomechanics of a single leg gait assistive device (2001). Orthopaedic Trauma Association, research grants program. Request of \$20,000. Pre-proposal application submitted – not funded.

Cipriani D, Munich H, Hall C, Nelson D. (1995) Engineering Fitness International, San Diego, CA. Equipment Grant of \$4800.00 - Funded.

Cipriani D, Master's Thesis Graduate Research Grant (1991) \$200.00 for Biomechanics Research – supplies. The University of Toledo Graduate School - Funded.

Other Scholarly Products:

None

Research Activity:

Lead role:

Evaluating the Measurement Properties of the GAITRite for the orthopedic clinical setting: This study is finishing its fifth year of data collection from various outpatient physical therapy clinics. The study has resulted in one presented poster and two additional posters accepted for presentation at CSM, 2014.

Evaluating the Psychometric Properties of the Functional Movement Screen: We are the first to examine the measurement properties for the FMS using the Rasch Measurement Model. This is an ongoing study with no results to report to date. Beginning collaborative work with the Athletic Training faculty at Chapman University. Anticipate 2-4 years of data acquisition for analysis.

Continuing Education Workshop Conducted/Organized:

None

Membership in Scientific/Professional Organizations:

American Physical Therapy Association 1984-present
OH/CA Chapter of the APTA; 1984 - present
Orthopaedic/Sports Section of the APTA; 1984 – present

National Strength and Conditioning Association 1993-present

American Society of Biomechanics, 2007 – present

American College of Sports Medicine 2005-2008

Consultative and Advisory Positions Held:

Physical Therapy Journal
Editorial Board Member, 2006 - 2008
Manuscript reviewer (3-4 manuscript reviews per year), 1998–present

Journal of Orthopaedic and Sports Physical Therapy
Editorial Review Board member, 2005 – present
Manuscript Reviewer (3-4 manuscripts/year)

Athletic Training Journal, 2009 – present
Manuscript Reviewer (1-2 manuscripts/year)

Gait and Posture Manuscript reviewer
2002-2007 (1-2 manuscripts/year)

Doody's Health Sciences Book Review Journal, Book reviewer
1994-1998

Yellowstone Education: The Functional Foot
Lecturer/Blog Contributor
2012-present

Posture Biomechanics Foundation
Scientific Advisory Board
2009-present

Training and Conditioning
Advisory Panel
2001 – present

Science of Orthotics and Prosthetics
Curriculum Design and Development
2002-2008

Engineering Fitness International (The Total Gym)
Exercise Design, Research Design, and Equipment Utilization
1989 – present

Community Service:

Physical Therapy as a Career: Presented at Miramar College of the San Diego Community College District, May 17, 2006.

Fit for Life – Health and Fitness Promotion (1.0 hour): St. Patrick's of Heatherdowns, Junior Highschool, keynote speaker, June, 2004.

Health and Fitness Promotion: Successful Aging (3.5 hours): YMCA of Toledo, March 16, 2002.

Running Biomechanics and Injury Prevention in Training (4 hours): Sponsored by Team Toledo Triathlon Club, February, 2002.

Scoliosis Screenings (3 hours): Byrnedale Junior High School, Toledo, OH (January 17, **2001**)

Finding time, when you can't make time, for health and fitness: Invited guest speaker, Black Belt Extravaganza, Academy of Karate by Hurtsellers, October, 2000.

Health and Fitness Promotion Workshop (4 hours): Academy of Karate by Hurtsellers, Toledo OH (March and April), 1998.

Physical Therapy in Toledo. Guest Speaker: Southwest Toledo Kiwanis Club, Toledo OH, April 7, 1998.

Understanding low back pain. Huntington National Bank of Toledo, Northwest Regional Services, Toledo, OH (1 hour). May 11, 1994

"The Principles of Strength Training" Sports Medicine Seminar, Adrian, MI, March, 1990 (1 hour)

"Heat Related Injuries." Care and Prevention of Athletic Injuries – Coaches Seminar. Sponsored in conjunction with Adrian College, Adrian, MI August, 1987. (1 hour)

"Prevention of Shoulder Injuries." Care and Prevention of Athletic Injuries - Coaches Seminar.
Sponsored in conjunction with Adrian College, Adrian, MI August, 1987. (2 hours)

"Heat Related Injuries." Coaches Clinic for the Care and Prevention of Athletic Injuries.
Napoleon High School System, Napoleon, OH one day, July, 1985. (1 hour)

"Strength Training for Off Season." Coaches Clinic for the Care and Prevention of Athletic Injuries.
Napoleon High School System, Napoleon, OH, one day, July, 1985. (1 hour)

"Overuse Injuries in Runners." Stroh's Light 10K Race, Tony Packo's Restaurant Sponsors, Toledo,
OH, one day, June, 1985 (2 hours)

Services to the University/Colleges/School on Committees/Councils Commissions:

Chapman University:

Department Level: Faculty search committee, DPT (2011-present)

College Level: Search Committee, Statistics Department (2010-2011)

University Level: Chair, Institutional Review Board member (2012-present)
Member (2011-2012)

Faculty Personnel Council (FPC) (2011-2012)

San Diego State University

College Level: Faculty Searches

Faculty Advisor, Student Organization (Pre-PT Club)

University of Toledo/Medical College of Ohio

Department: Curriculum Committee

Faculty Search Committees

College: Co-chair, Institutional Review Board (2000-2005)

Honors and Awards:

Teaching

Outstanding Faculty Award:

Department of Physical Therapy, Chapman University, **2012**

Outstanding Faculty Award: Most Influential Faculty Member, Department of Interdisciplinary
Studies, San Diego State University **2009**

Outstanding Faculty Award: Most Influential Faculty Member, School of Exercise and Nutritional
Sciences. College of Professional Studies and Fine Arts, San Diego State University **2007**

Dean's Award for Teaching Excellence

Medical College of Ohio, School of Allied Health, **2004**

Outstanding Faculty Award

Medical College of Ohio's Department of Physical Therapy, **1998**

Dean's Award For Teaching Excellence

Medical College of Ohio, School of Allied Health, **1994**

Outstanding Faculty Award

Medical College of Ohio's Department of Physical Therapy, **1994**

Dean's Award For Teaching Excellence

Medical College of Ohio, School of Allied Health, **1993**

Outstanding Faculty Award

Medical College of Ohio's Department of Physical Therapy, **1993**

Research

Outstanding Research Award: Department of Occupational Therapy, The University of Toledo's Health Science Campus. Gina Kubec and Danielle McPeck, Rasch Analysis to Evaluate the Care-Givers Self-Assessment Scale, **2008**

California State University Research Competition: First Place, Undergraduate Research, Mr. Daniel Cannon, San Diego State University, **2006**

Certificate of Recognition for Contribution to Physical Therapy Research Ohio Physical Therapy Association, **2006**

Certificate of Recognition for Contribution to Physical Therapy Research Ohio Physical Therapy Association, **2003**

Certificate of Recognition for Contribution to Physical Therapy Research Ohio Physical Therapy Association, **2002**

Service

Inspirational Leader: SDSU Student Organizations – the Future Physical Therapists Organization, **2010**

Outstanding Student Organization. Future Physical Therapists Organization, San Diego State University (Faculty Advisor), **2010**.

Inspirational Leader: College of Professional Studies and Fine Arts, San Diego State University's Future Physical Therapy Student Organization **2009**.

Inspirational Leader: College of Professional Studies and Fine Arts, San Diego State University's Future Physical Therapy Student Organization **2008**.

Inspirational Leader: College of Professional Studies and Fine Arts, San Diego State University's Future Physical Therapy Student Organization **2007**.

Manuscript Reviewer of the Year: The Journal of Physical Therapy American Physical Therapy Association, **2005**

Continuing Education Attended:

Institutional Review Board 201: Criteria for Human Subjects Research Review (6.5 CEU) at the Advance Ethical Research Conference: Public Responsibility in Medicine and Research, San Diego, CA 2012

Rehabilitation for the Postsurgical Orthopaedic Patient, 2nd Edition: Module 2: The Lower Extremity (10 Hours). At Home Seminars, PO Box 94594 Las Vegas, Nevada (Ohio Physical Therapy Association approved: #11S0516), April 27, **2011**.

Rehabilitation for the Postsurgical Orthopaedic Patient, 2nd Edition: Module 1: The Upper Extremity and the Spine (10 Hours). At Home Seminars, PO Box 94594 Las Vegas, Nevada (Ohio Physical Therapy Association approved: #11S0517), April 25, **2011**.

Evaluation, Rehabilitation, and Performance Enhancement of Runners. Cross Country Education. Jamey Gordon, DPT (presenter) 6 hours. San Diego CA **2009**.

Vestibular Rehabilitation, Dizziness, Balance, and Associated Issues in Physical Therapy. The American Physical Therapy Association, Independent Study Course (30 CEU's) Summer-Fall, **2007**
Got Funding? Inservice on funding services. San Diego State University (fall, **2005**)

Sports Medicine Symposium, Middletown Regional Hospital, Sports Medicine and Physical Therapy, July 15-16, **2004** (7.0 CEU's Ohio APTA #04S1352 and #04S1353)
Diagnostic imaging for the lumbar spine. Phil Anloague, PT.
New and Innovative Procedures for the injured athletic elbow. Brent Bamburger, DO.
Rehabilitation of shoulder impingement. Todd Ellenbecker, P.T.

Manuscript Reviewers Workshop. Sponsored by the American Physical Therapy Association, **Physical Therapy** Journal – Spring, **2002**

Differential Diagnosis. Sponsored by the American Physical Therapy Association, 2-days, Spring, **2002**.

Leadership Training. Sponsored by the Academy of Karate by Hurtsellers, Toledo, OH (18 hours) - Summer, **2001**

Grant Writing Workshop – The Medical College of Ohio, Center for Aging (4 hours) – Spring, **2001**.

Orthopaedics and the Elderly. Orthopaedic Section of the American Physical Therapy Association, Home Study Course. 30 CEU's Awarded, October, **1999**.

Gross Dissection and Kinesiology of the Upper Extremity (28 hours). Marquette University, Milwaukee WI. July 6-10, **1999**.

Gross Dissection and Kinesiology of the Lower Extremity (28 hours). Marquette University, Milwaukee WI. July 7-11, **1998**.

Small Group Teaching: Discussion Group and Case-based Approaches. Workshop for faculty development, the Medical College of Ohio, November, **1998**.

Measuring Higher Level Learning: Essay and Multiple Choice. Workshop for faculty development, the Medical College of Ohio, November, **1998**.

The Cervical Spine: Orthopaedic Physical Therapy Home Study Course January-June, 1996. Awarded 30.0 CEU's from the APTA, July, **1996**.

Exercise in Orthopaedics: Practical Applications for Common Upper and Lower extremity Problems. Hilton Head, SC. Feb. 9-10, **1996** – Continuing Education Network (Richmond, VA). (13 CEU's).

Lower Extremity Pathomechanics. The University of Michigan Orthotics and Prosthetics Center and UM Physical Therapy, Ann Arbor MI; October 1-2, **1994**. (14 CEU's).

Teaching the Spine: A National Seminar for Physical Therapy Educators: Oakland University, Oakland, MI August 15-18, **1993**, with Freddy Kaltenborn and Olaf Evjenth.

"Chronic Overuse Syndrome." Presented by Mike Flynn, Ph.D. at the Northwest Ohio Orthopaedic Study Group, Medical College of Ohio, Toledo, OH April 29, **1993**

Open vs. Closed Kinetic Chain Rehabilitation of the Lower Extremity: Strengthening, Stabilization, Orthotics. Northeast Seminars, East Hampstead, NH. With Robert Donatelli. Detroit, MI, March 25-26, **1993** (17 CEU's)

Biomechanics of the Lower Extremities. Presented by Heartland Rehabilitation in conjunction with the Medical College of Ohio's Program in Physical Therapy. Dave Tiberio, March 20-21, **1993** (13.5 Credit Hours)

Developing and Implementing a Clinical Research Project. Ohio Chapter APTA, State Conference. Presented by Deborah Nichols, Ph.D. March 3, **1993** (6 CEU's).

The Low Back Pain Dilemma, Meeting Planners, Inc., Toronto Ontario Canada, four days, April, **1991**, multiple speakers.

Comprehensive Care of the Knee, Meeting Planners, Fort Lauderdale, FL, four days, July, **1990**, multiple speakers.

Sports Physiology Workshop, University of Toledo, College of Education, School of Physical Education, Toledo, OH, ten days, July, **1990**, with Drs. Mike Flynn, Ph.D., and Fred Andres, Ph.D.

Project Management, Fred Pryor Seminars, Toledo, OH one day, February, **1990**

Advanced Locomotor Biomechanics, University of Toledo Graduate Seminar Series, Toledo, OH, five weeks, August, **1989**

Shoulder Evaluation and Sports Injuries, NATA Symposium, Lansing, MI, 1-day, May, **1989**

Exercise Endocrinology, Seminar Series for the University of Toledo, Graduate Education Program, Toledo, OH, Spring Quarter, **1989**

Shoulder Rehabilitation and Biomechanics, Challenge of the Shoulder, Nashville, TN, three days, October, **1988**

Approaches to Knee Rehabilitation and Evaluation, with Bob Mangine, PT, St. Charles Hospital, Toledo, OH, two days, November, **1987**

Sacroiliac Joint Function and Dysfunction, with Jim Porterfield and Carl DeRosa, July, Lake of the Ozarks, Missouri (3 days) **1987**.

Clinical Electrodynography, Detroit, MI, one day, June, **1986**

When the Feet Hit the Ground Everything Changes...Locomotor Biomechanics and Applied Orthotic Therapy, Practice Programs for Applied Biomechanics, three days, Richmond, VA, September, **1985** (Lab assistant).
Scranton PA, March **1985**

Jobst Institute Peripheral Vascular Disease, Toledo, Ohio, one day, February, **1985**

Current Teaching Responsibilities in the Entry-Level Physical Therapy Program:

Sem 1:1

| | |
|---------|------------------------------------|
| PT 511 | Biomechanics of Human Movement |
| PT 511L | Biomechanics of Human Movement Lab |
| PT 650 | Scientific Inquiry IA |

Sem 1:2

| | |
|---------|--------------------------------|
| PT 512 | Kinesiological Motion Analysis |
| PT 512L | Kinesiological Motion Analysis |
| PT 530 | Physical Examination |
| PT 530L | Physical Examination Lab |

Proposed Teaching Responsibilities in the Entry-Level Physical Therapy Program:

Sem 1:1

| | |
|---------|------------------------------------|
| PT 511 | Biomechanics of Human Movement |
| PT 511L | Biomechanics of Human Movement Lab |

Sem 1:2

| | |
|---------|--------------------------------|
| PT 512 | Kinesiological Motion Analysis |
| PT 512L | Kinesiological Motion Analysis |
| PT 650 | Scientific Inquiry IB |

Proposed Teaching Responsibilities in the Proposed Entry-Level Physical Therapy Program:

Sem 1:1

| | |
|---------|------------------------------------|
| PT 511 | Biomechanics of Human Movement |
| PT 511L | Biomechanics of Human Movement Lab |

Sem 1:2

| | |
|---------|--------------------------------|
| PT 512 | Kinesiological Motion Analysis |
| PT 512L | Kinesiological Motion Analysis |
| PT 650 | Scientific Inquiry IB |