

## Senior Honors Thesis Titles and Advisors by Year

### 10-11

The Reliability of Three Nintendo Wii Balance Games: Dual-Task Approach to Measuring Postural Control

By Nora Brody

Under the advisement of Kevin Guskiewicz, Jason Mihalik, and Johna Register-Mihalik

Effects of Frontal Plane and Transverse Plane Hip Motion and Ground Reaction Forces on the External Knee Valgus Moment

By Katie Cawthorn

Under the advisement of Darin Padua, Troy Blackburn, Barnett Frank, and Ben Goerger

Relationships Between Hamstring Stiffness and Landing Biomechanics

By Lindsey Cannon

Under the advisement of Troy Blackburn, Marc Norcross and Steve Zinder

Sex Differences on Common Neurocognitive Tests in Competitive Soccer Players Following an Acute Bout of Soccer Heading

By Katherine Hemp

Under the advisement of Steve Zinder, Johna Register-Mihalik and Jason Mihalik

The Difference in Balance Performance and Cognitive Function in a Combined Balance and Cognitive Function Task Compared to a Single task

By Elizabeth Teel

Under the advisement of Kevin Guskiewicz, Troy Blackburn and Johna Register-Mihalik

### 09-10

A Comparison of Heart Rate Variability and Coherence between Breast Cancer Survivors and Healthy Controls

By Zachary Long

Under the advisement of Diane Groff, Claudio Battaglini and Debra Murray

Varsity Life: An Ethnographic Study of Athletic, Academic, and Social Pressures of Division I Varsity Football Players

By Morgan Randall

Under the advisement of Richard Southall, Coyte Cooper and Deborah Southall

An Examination of the Effect of Mental Fatigue on Grip Strength

By Jason Gonzalez

Under the advisement of Krisitn Ondrak, Johnathan T. Blackburn, Richard Falvo and Jason Mihalik

The Relationship between Fatness, Physical Activity, and Aerobic Power in Children and Adolescents

By Amber Chewning

Under the advisement of Robert McMurray, Kristin Ondrak, Meredith Petschauer

**08-09**

A Ten Year Comparison of Physical Therapy Programs in the State of North Carolina

by Brooke Danielle Swinson

under the advisement of Bill Prentice, Shana Harrington, and Jose Sandoval

Influence of Exercise Training on Blood Prolactin Levels

by Stephanie A Caudle

under the advisement of Anthony Hackney, Meredith Petschauer, Diane Groff

The Effects of Aquatic Resistive Exercise on Composite Leg Strength, Gross Motor Function and Body Composition in Adolescents with Cerebral Palsy

by Kelsey Falvey

under the advisement of Meredith Petschauer and Debra Thorpe, Diane Groff

The Feasibility of Administering a Combined Exercise and Recreation Therapy Intervention in Post Treated Breast Cancer Patients

by Leigh Anne McLaughlin

under the advisement of Claudio Battaglini, Diane Groff, and Edgar Shields

Effects of Augmented Feedback on Co-Activation Ratios and Knee Valgus in Individuals with Medial Knee Displacement

by David Craig Oates II

under the advisement of Darin Padua, Steve Zinder, David Bell and Ben Goerger

**07-08**

The Efficacy of a Rehabilitation Protocol of Foam Rolling, Stretching, and Strength Exercises on the Correction of Knee Valgus in Double Leg Squats

by Obafunto Abimbola

under the advisement of Darin Padua, David Bell, Michelle Boling, Christopher Hirth

A Comparison of Three Men's Lacrosse Helmets with Regard to Cervical Spine Stability

by Elizabeth Hibberd

under the advisement of Meredith Petschauer, Nina Walker, Michelle Boling

The Relationship of the Metabolic Syndrome Components with Physical Activity, Cardiovascular Fitness, and Sedentary Behavior in Adolescents

by Diane Blahut

- under the advisement of Robert McMurray, Claudio Battaglini, Kristin Ondrak
- Sex Comparison of Hamstring Stiffness and Elastic Modulus  
by Megan Kimsey  
under the advisement of J. Troy Blackburn, Steven Zinder, David Bell
- The Relationship of C-Reactive Protein with Physical Activity and Aerobic Power in Normal-Weight Youth  
by Lauren Kirkpatrick  
under the advisement of Robert McMurray, Sherry Salyer, Kristin Ondrak
- Sex Comparison of Hamstring Electromechanical Delay and the Influence of Musculotendinous Stiffness  
by Lauren Engstrom  
under the advisement of J. Troy Blackburn, Steven Zinder, David Bell
- The Prevalence of Symptoms of Neurological Decompression Sickness Among Commercial and Professional Divers.  
by Erica Lagrow  
under the advisement of Meredith Petschauer, J. Troy Blackburn,
- The Underreporting of Concussion in High School Athletes  
by Kamisha Holmes  
under the advisement of Kevin Guskiewicz, Diane Groff, Johna Mihalik
- The Effects of Footwear and Ankle Bracing on Balance and Vertical Jump on Stable and Chronically Unstable Ankles  
by Erica Glenn  
under the advisement of Steven Zinder, Lindsay DiStefano, Thomas Barr
- 06-07**
- The effects of Exercise of Caloric Intake in Breast Cancer Patients Undergoing Treatment  
by Lavonne Hairston  
under the advisement of Claudio Battaglini, Edgar Shields, Meredith Petschauer
- The Effects of Three Unique Landing Tasks on Biomechanical Measures  
by Anna Cruz  
under the advisement of Darin Padua, Troy Blackburn, David Bell
- A Fiscal analysis of NCAA division I-A Football Programs and the significant difference between on-Field, Financial, and Academic Success from 2004 -2005  
by Sarah Humphries  
under the advisement of Nathan Tomasini, Greg Driscoll, Sherry Salyer

Driven by Passion, Leni Riefenstahl's Struggle to Direct Olympia  
by Elizabeth Lancaster  
under the advisement of Sherry Salyer, Cheryl Junk, Diane Groff

#### **05-06**

Do Exercise Belief Changes Correspond With Physical Activity Patterns Adiposity As Children Enter Adolescence?  
by Candice Lowdermilk  
under the advisement of Robert McMurray, Elizabeth Hedgpeth, Debra Murray

The Relationship of C-Reactive Protein With Physical Activity And Aerobic Power In Overweight Adolescents  
by Amy Armstrong  
under the advisement of Robert McMurray, Daniela Rubin, Robert Butler

The Relationship Between Engaging In Varieties Of Social Activity And Physical Function In Older Adults  
by Ladonna Brown  
under the advisement of Daniela Rubin, Meredith Petschauer, Tiffany Shubert

Analysis of ground reaction force after a six week agility training program during a side step pivot maneuver and a jump landing tasks in female intramural basketball players  
by Kelsey Brickham  
under the advisement of Darin Padua, Robert Butler, Sherry Salyer

The Relationship Between Static Pelvic Measures And Navicular Drop Measures  
by Jennifer Brisson  
under the advisement of Darin Padua, Christopher Hirth, Dean Crowell

#### **04-05**

The Effects of Flexibility on Performance of the Elite Athletes on the Women's Rowing Team  
by Rawan Kablawi  
under the advisement of Richard Mynark, Sarah Haney, Sherry Salyer

The Effect of Pelvic Inclination on Lower Extremity Strength  
by Benjamin Goerger  
under the advisement of Darin Padua, Kevin Guskiewick, Charles Thigpen

#### **03-04**

A Comparison of the Prevalence of the Signs and Symptoms of the Female Athlete Triad Between Image Based and Non-Imaged Based Sports  
by Kelly Serfas

under the advisement of Meredith Petschauer, Richard Mynark, Barbara Osborne, Edgar Shields

### **02-03**

A Preliminary Psychometric Analysis of an Inventory Assessing Mental Toughness  
by H. Leanne Cherry  
under the advisement of John Silva, Richard Mynark, Joseph Lowman

The Effects of Myofascial Release and Static Stretching and Hamstring Flexibility  
by Sarah Schultz  
under the advisement of Darin Padua, Chris Hirth, Meredith Petschauer

### **01-02**

The Effects of Dynamic and Traditional Power Bench Press Training Programs on Electromyography of the Pectoralis Major and the Time to Complete the Concentric Phase of a Bench Press  
by Robert Flemming  
under the advisement of Richard Mynark, Darin Padua, Scott Ross

Does Quadriceps Avoidance Gait Occur in Patients with Isolated Meniscus Injury when Compared to Patients with Isolated ACL Injury?  
by Erica Booth  
under the advisement of Kevin Guskiewicz, Darin Padua, Meredith Petschauer, Scott Ross

### **00-01**

One-Arm Hop Test: Relationship to Core Abdominal Strength and Isometric Shoulder Strength  
by Deidra Scofield  
under the advisement of Kevin Guskiewicz, Robert Schneider, Scott Ross

Leg Length Inequality and Ground Reaction Force Components: The Effect of Heel Lift Intervention  
by Jennifer Cooke  
under the advisement of Meredith Petschauer, Michael Gross, Donald Kirkendall

The Effects of Guided Mental Imagery on Body Size and Body Image of Weightlifters  
by Mausi Farr  
under the advisement of John Billing, John Silva, Jennifer Dobridge

An Analysis of Energy Balance in Competitive Collegiate Tennis Athletes  
by Elizabeth Galleher  
under the advisement of Bonita Marks, John Billing, Teresa Moore

The Effect of Resistance Training on Insulin Levels in the Blood

by Matthew Jacobs

under the advisement of Robert McMurray, Meredith Petschauer, Daniela Rubin

The Effect of Cryotherapy, Diathermy, and Deep Muscle Massage in Combination with Static Stretching on Hamstring Flexibility

by Katherine Thompson

under the advisement of Meredith Petschauer, William Prentice, Kevin Guskiewicz

## **99-00**

The Cumulative Effects of Soccer Manifested in Postural Stability and Cognitive Function

by Steven Broglio

under the advisement of Kevin Guskiewicz, William Prentice, Stephen Marshall

Effect of Training in Exercise Sandals on 2-D Rearfoot Motion and Postural Sway in Abnormal Pronators

by Thomas Michell

under the advisement of Christopher Hirth, Kevin Guskiewicz, Meredith Petschauer

The Role of a Visual Goal in Vertical Jump Height

by Laura McCaskill

under the advisement of Meredith Petschauer, Kevin Guskiewicz, Donald Kirkendall

## **98-99**

The Effects of Health Maintenance Organizations on the Overall Health of a Sample of North Carolina Citizens

by Kristina Hohas

under the advisement of Ronald Hyatt, John Billing, Sherry Salyer

## **97-98**

A Descriptive Analysis of NCHSAA Cheerleading Coaches with Respect to Education, Training, and Background

by Shannon Norman

under the advisement of Nancy Weaver, Frederick Mueller, Edgar Shields

The Bowen Technique: A study of its Prevalence and Effectiveness

by Amy Norman

under the advisement of Meredith Busby, William Prentice, Edgar Shields

Recovery Heart Rate Following Steady State and Interval Exercise

by Laura Wilson

under the advisement of Frederick Mueller, Bonita Marks, Nancy Weaver

A Comparison of Characteristics of Physical Therapy Programs in North Carolina

by Shana Harrington

under the advisement of Kevin Guskiewicz, William Prentice, Nancy Weaver

Balance and joint stability : the relative contributions of proprioception and muscular strength

by J. Troy Blackburn

under the advisement of Kevin Guskiewicz, William Prentice, Meredith Busby