

## **Sample Masters of Science Curriculum – Motor Control and Rehabilitation**

### **General Course Requirements – Master of Science (MS) (39-42 hours)**

- Exercise Science (15-21 hours)
- Research/Statistical Methods (3-9 hours)
- Electives (6-18 hours)
- Project (3 hours) or Thesis (6 hours)

### **Required Courses for All Exercise Science MS Students (6 hours)**

- BIOS 700 - Introduction to biostatistics or equivalent (3h, Fall)
- EXSC 700 – Exercise and Public Health (3h, Spring)

### **Required Courses for Motor Control and Rehabilitation (12 hours)**

- EXSC 731 – Mechanisms of Motor Skill Performance (3h, Spring)
- EXSC 782 – Biomechanical Analysis of Motor Skills (3h, Fall)
- PHYT 762 – Neuromuscular Conditions (3h, Spring)
- EXSC 790 – Independent Study in Motor Development (3h, Fall)

### **Advisor Approved Elective Courses for Motor Control and Rehabilitation (9-12 hours)**

- EXSC 563 - Physical Activity and Aging (3h, Spring)
- EXSC 795 - Internship in Exercise Science (3h, Fall or Spring)
- PSYC 730 - Survey of Biological Psychology (3h, Fall)
- BIOS 757 - Intermediate Biostatistics (3h, Spring)
- BIOS 840 - Research Design in the Biomedical Sciences or equivalent (3h)
- EPID 700 - Introduction to Epidemiology (3h, Fall or Spring)
- HPEB 710 - Evaluation of Health Promotion Programs (3h, Spring)

### **Free Electives (6-9 hours)**

### **Research (3 or 6 hours)**

- EXSC 799 - Thesis (6hr, Fall or Spring)
- EXSC 798 – Project (3h, Fall or Spring)

## Sample Motor Control and Rehabilitation MS Academic Plan

### **Year 1**

#### Fall Semester

- 3h BIOS 700 – Introduction to Biostatistics
- 3h EXSC 782 – Biomechanical Analysis of Motor Skills
- 3h EXSC 790 – Independent Study in Motor Development

#### Spring Semester

- 3h EXSC 731 – Mechanisms of Motor Skill Performance
- 3h PHYT 762 – Neuromuscular Conditions
- 3h EXSC 563 – Physical Activity and Aging

#### Summer

- 3h Elective

### **Year 2**

#### Fall Semester

- 3h EXSC 795 – Internship in Exercise Science
- 3h EXSC 790 – Independent Study in Motor Development
- 3h EPID 700 – Introduction to Epidemiology
- 3h Elective

#### Spring Semester

- 3h EXSC 798 – Project
- or
- 6h EXSC 799 - Thesis
- 3h Elective
- 3h Elective