Sample Masters of Science Curriculum – Applied Physiology track

- **General Course Requirements - Master of Science (MS) (39 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
  PUBH 700 – Perspectives in Public Health
  EPID 700/701 – Introduction to Epidemiology/Concepts and Methods

**Required Courses for Applied Physiology Track (11 hours)**
EXSC 742 – Clinical Exercise Testing
EXSC 743 – Laboratory Measurements for Exercise Testing
EXSC 780 – Physiology of Exercise
EXSC 781 – Physiology, Exercise, and Disease
EXSC 783 – Seminar in Exercise Science

**Advisor Approved Exercise Science Courses for Applied Physiology**
EXSC 620 – Nutrition and Immunology
EXSC 666 – Cardiorespiratory Exercise Physiology
EXSC 669 – Skeletal Muscle Physiology: Form & Function
EXSC 700 – Exercise and Public Health
EXSC 755 – Selected Topics in Exercise Science (3)
EXSC 777 – Endocrinology in Exercise and Health (3)
EXSC 784 – Cardiovascular Testing & Programming (3)
EXSC 785 – Advanced Exercise Physiology Laboratory (3)
EXSC 790 – Independent Study (1-3h, repeatable up to 6h)
EXSC 880 – Myology (3)
EXSC 881 – Advanced Cardiorespiratory Exercise Physiology (3)
EXSC 883 – Physical Activity, Chronic Diseases & Disabilities (3)

**Electives (6-15)**

**Thesis or Project**
EXSC 798 (3) or
EXSC 799 (6)

**Total: 39 Credits**
Sample Applied Physiology MS Academic Plan

Year 1
Fall Semester
3 BIOS 700 – Introduction to Biostatistics
1 EXSC 742 – Clinical Exercise Testing
3 EXSC 780 – Physiology of Exercise
1 EXSC 783 – Seminar in Exercise Science

Spring Semester
3 EPID 700 – Introduction to Epidemiology
1 EXSC 743 – Laboratory Measurements for Exercise Testing
3 EXSC 781 – Physiology, Exercise, and Disease
1 EXSC 783 – Seminar in Exercise Science

Summer Semester
Options
3 EXSC 784 – Cardiovascular Testing & Programming
3 EXSC 785 – Advanced Exercise Physiology Laboratory
1-3 EXSC 790 – Independent Study EXSC
3 EXSC 755 – Selected Topics in Exercise Science

Year 2
Fall Semester
3 PUBH 700 – Perspectives in Public Health
1 EXSC 783 – Seminar in Exercise Science
Options
3 EXSC 880 or 883
3-4 Elective
1-3 EXSC 790 – Independent Study EXSC
3 EXSC 777 – Endocrinology in Exercise and Health

Spring Semester
EXSC 798 or 799 – Project or Thesis
Options
1-3 EXSC 790 – Independent Study EXSC
3-4 Elective