

Sample Masters of Science Curriculum – Applied Physiology track

- **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 Applied Physiology Track (11 hours)

EXSC 742 – Clinical Exercise Testing (*1h, Fall*)

EXSC 743 – Laboratory Measurements for Exercise Testing (*1h, Spring*)

EXSC 780 – Physiology of Exercise (*3h, Fall*)

EXSC 781 – Physiology, Exercise, and Disease (*3h, Spring*)

EXSC 783 – Seminar in Exercise Science (*1h, 3h required, Spring / Fall*)

Advisor Approved Exercise Science Courses for Applied Physiology

EXSC 755 – Selected Topics in Exercise Science (*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: 39-42 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 EXSC 700 – Exercise and Public Health
- 1 EXSC 743 – Laboratory Measurements for Exercise Testing
- 3 EXSC 781 – Physiology, Exercise, and Disease
- 1 EXSC 783 – Seminar in Exercise Science

Maymester / Summer

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

- 1 EXSC 783 – Seminar in Exercise Science

Options

- 3 EXSC 880, 881 or 883
- 3-4 Elective
- 1-3 EXSC 790 – Independent Study EXSC

Spring Semester

EXSC 798 or 799 – Project or Thesis

Options

- 1-3 EXSC 790 – Independent Study EXSC Exercise and Public Health
- 3-4 Elective