M.S. Degree in Health Studies

Concentration in Exercise, Sport & Movement Sciences

Name:	SID#:
Advisor:	Semester/Year Admitted:

I. Health Studies Core Courses (6 hours)	Grade	Sem/Yr
HMSE 7010 (3) Research Methods in Health Studies (Fall) AND		
HMSE 7100* (3) Data Analytics in Health Sciences (Fall) OR		
EDPR 7541* (3) Statistical Methods Applied to Education I (Fall) OR		
PUBH 7150* (3) Biostatistical Methods I (Fall)		
* Choose one course from HMSE 7100, EDPR 7541, and PUBH 7150		
II. Concentration Requirement Courses (18 hours) ***Sequence suggested for statistics.***	Grade	Sem/Yr
EDPR 7542* (3) Statistical Methods Applied to Education II OR		
PUBH 7152* (3) Biostatistical Methods II (Spring) OR		
HMSE 7200* (3) Health Data Science		
ESMS 7020 (3) Publications/Proposals in Health & Biomedical Sciences (Spring)		
ESMS 7123 (3) Mechanical Analysis of Motor Skills (Fall)		
ESMS 7163 (3) Advanced Motor Learning (Spring)		
ESMS 7201 (3) Physiology of Exercise: Musculoskeletal Aspects (Fall)		
ESMS 7202 (3) Physiology of Exercise: Metabolic/Cardiorespiratory Aspects (Spring)		
ESMS 7878 (0) Master's Comprehensive Exam		
* Choose one course from HMSE 7200, EDPR 7542, and PUBH 7152		
III. Elective Courses (6 hours) ***Choose from the following courses or other courses with approval of the advisor***	Grade	Sem/Yr
BIOL 6511 (3) Biochemistry I		
BIOL 6503 (2) Biochemistry I Lab		
BIOL 6512 (3) Biochemistry II		
BIOL 6504 (2) Biochemistry II Lab		
BIOL 6630 (3) General Endocrinology		
BIOL 7010 (3) Principles & Methods of Systematic Biology		
BIOL 7031 (3) Cellular Physiology		
ESMS 6000 (3) Exercise Testing & Interpretation Laboratory		
ESMS 6603 (3) Advanced Methods of Strength and Conditioning		
ESMS 3902-11 (4) Special Topics in Exercise, Sport & Movement Sciences		
ESMS 7133 (3) Current Readings in ESMS		
ESMS 7152 (3) Problems in Exercise, Sport & Movement Sciences (Independent Study)		
ESMS 7260 (3) Human Systems Physiology for Health Sciences		
ESMS 7270 (3) Neuroanatomy for Health Sciences		
ESMS 7300 (3) Morphological Foundations of Strength Development (Online Summer)		
ESMS 7310 (3) Data Analysis Techniques in Biomechanics		

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ESMS 7800 (3) Internship in Exercise, Sport & Movement Sciences		
ESMS 7902-11 (3) Special Topics in Exercise, Sport & Movement Sciences		
NUTR 7000 (3) Sport Nutrition		
NUTR 7001 (3) Nutraceuticals & Dietary Supplements		
NUTR 7002 (3) Exercise & Nutrition Immunology		
NUTR 7412 (3) Cellular Nutrition I		
NUTR 7422 (3) Cellular Nutrition II		
IV. Culminating Experience (6 hours) Choose <u>one</u> of the following four options:	Grade	Sem/Yr
1) ESMS 7900 (6) Research Lab Residency		
2) ESMS 7950 (6) Applied Project in ESMS		
3) HMSE 7996 (6) Thesis		
4) Non-Research: Additional Advisor-Approved Electives (6)		

In all cases, students in their final semester must register for zero (0) credit hours of ESMS 7878 (Master's Comprehensive Exam). The successful completion of one of the following comprehensive exam experiences is required for graduation:

- *ESMS 7900 requires a committee-approved oral defense of the residency experience.*
- *ESMS 7950 and HMSE 7996 require successful completion of a committee-approved research project under the direction of the major professor that culminates in a formal write-up and oral defense of same.*
- *A non-research option requires successful completion of both advisor-approved courses and a written comprehensive exam covering the Health Studies core and required coursework in the ESMS concentration. (Contact the program coordinator for further details)*

A minimum of 36 credit hours is required for this concentration.

V. Occasionally offered acceptable electives in ESMS	Grade	Sem/Yr
ESMS 6406 (3) Exercise Testing & ECG Interpretation		
ESMS 7173 (3) Exercise & Sport Psychology		
ESMS 7210 (3) Analysis of Muscle Function		
ESMS 7220 (3) Advanced Considerations of Skeletal Muscle Structure & Function		
ESMS 7230 (3) Exercise Endocrinology		
ESMS 7240 (3) Atherosclerosis & Cardiovascular Disease: Pathophysiology & Interventions		
ESMS 7250 (3) Motor Control: A Behavioral Emphasis		
ESMS 7532 (3) Research Methods in Sport Neuromechanics		
ESMS 7542 (3) Advanced Kinesiology		