

# HUMAN MOVEMENT SCIENCE (HMSC)

## Additional Resources

- Catalog Course Search (<https://catalog.unc.edu/course-search/>)
- Course Numbering Guide (<https://catalog.unc.edu/courses/course-numbering/>)
- Scheduled Classes (<https://reports.unc.edu/class-search/>)
- Historical Course Record ([https://reports.unc.edu/historical\\_course\\_record/](https://reports.unc.edu/historical_course_record/))

Any courses approved after June 1, 2026 will not appear in the 2026-27 Academic Catalog but will be available in ConnectCarolina.

## Courses

**HMSC 700. Scientific Basis of Human Motion. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 701. Scientific Basis of Human Motion. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 702. Physiology of Exercise. 3 Credits.**

The study of the physical, biochemical, and environmental factors that influence human performance. Emphasis is placed on metabolic, cardiovascular, respiratory, muscular, and endocrine systems. Three hours of lecture and two hours of laboratory per week.

**Rules & Requirements**

**Requisites:** Prerequisites, EXSS 256 or EXSS 276 or EXSS 376.

**Grading Status:** Letter grade.

**Same as:** EXSS 780.

**HMSC 710. Measurement of Muscle Function. 3 Credits.**

This course will look at basic concepts related to the physiology underlying muscle activity and appropriate measurements of muscle function, while at the same time introduce you to data acquisition, analysis, and programming approaches to collecting and analyzing relevant muscle-function data.

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 743. Topics in Motor Control and Motor Learning: Therapeutic Implications. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 770. Electronics for Human Movement Science. 1-21 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 780. Introduction to Outcomes Research in Health Care. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 782. Infant and Family Assessment. 2-3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 782L. Laboratory in Infant and Family Assessment. 0.5-21 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 790. Advanced Kinesiology and Biomechanics. 4 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 791. Analysis of Human Motion. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 793. Advanced Ortho Assessment. 4 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 795. Human Kinetics. 4 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 801. Seminar in Human Movement Science. 2 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 803. Problems in Human Movement Science. 1-3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 877. Independent Study in Human Movement Science. 1-21 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 879. Research in Human Movement Science. 1-21 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 881. The Neural Basis of Motor Control. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 885. Beach Course. 1-3 Credits.**

Human movement seminar held at the beach.

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 886. Understanding Research. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 887. Developmental Motor Control. 1-3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 900. Research in Human Movement Science. 1-3 Credits.**

This course is designed to provide doctoral students within the Human Movement Science Curriculum with academic credit(s) to conduct research under the guidance of a research mentor.

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 911I. Movement and Balance in Aging. 3 Credits.**

**Rules & Requirements**

**Grading Status:** Letter grade.

**HMSC 993. Master's Research and Thesis. 3 Credits.**

**Rules & Requirements**

**Repeat Rules:** May be repeated for credit.