# RSD 6110 Rehabilitation Science Theory and Application I
**3 Credits**
**Grading Scheme:** Letter Grade
Philosophical and theoretical foundations. History of the development of rehabilitation services and funding. Evolution of health care systems in the U.S.

Prerequisite: This course is open to all Rehabilitation Science PhD students. As such, admission to the RSD program is a prerequisite. Graduate students from other programs are encouraged to register with prior permission of the instructor.

# RSD 6401 Skeletal Muscle in Aging and Disease, and Implications for Rehabilitation
**3 Credits**
**Grading Scheme:** Letter Grade
Addresses the impact of aging and various diseases on skeletal muscle biology, the mechanisms therein, and preclinical (animal model) or clinical approaches to therapeutically treating the muscle to improve function.

Prerequisite: This course is open to all Rehabilitation Science PhD students. As such, admission to the RSD program is a prerequisite. Graduate students from other programs are encouraged to register with prior permission of the instructor.

# RSD 6700 Rasch Measurement: Introduction and Application
**3 Credits**
**Grading Scheme:** Letter Grade
Applying Rasch measurement to social and health science data. Rasch pertains to Item Response Theory approaches used to analyze educational, survey, self-report, and clinical data; and is a precursor to computerized adaptive testing.

Prerequisite: for doctoral students.

# RSD 6706 Scientific Writing for the Rehabilitation Professional
**3 Credits**
**Grading Scheme:** S/U
A systematic approach to scientific writing using the student's scientific project (article, chapter, grant, other) as a focus for participation.

Corequisite: Scientific writing project.

# RSD 6710 Motor Control: Translating from Fundamental Research to Rehabilitation Practice
**3 Credits**
**Grading Scheme:** Letter Grade
Defines fundamental concepts and theories related to motor control and movement science and discusses these concepts in the context of neurorehabilitation. The course also emphasizes atypical motor control functions and underlying neurophysiological mechanisms following disease/injury. Students will practice scientific writing and presentation skills through weekly in-class presentations.

Prerequisite: This course is open to all Rehabilitation Science PhD students. As such, admission to the RSD program is a prerequisite. Graduate students from other programs are encouraged to register with prior permission of the instructor.

# RSD 6900 College Classroom: Teaching Process and Practice
**3 Credits**
**Grading Scheme:** Letter Grade
Information and skills required for successful teaching faculty in college classroom.

# RSD 6905 Individual Work
**1-4 Credits, Max 12 Credits**
**Grading Scheme:** Letter Grade
Special project or research.

Prerequisite: RSD 6112, consent of adviser, and project approval.

# RSD 6910 Supervised Research
**1-5 Credits, Max 5 Credits**
**Grading Scheme:** S/U
Supervised Research