

Example Curriculum Plan – Neuromotor control and rehabilitation concentration area

Requirements: 10 credits of rehabilitation science coursework, 12 credits of research tools coursework and 22 credits in the Neuromotor control concentration area.

| <u>Interdisciplinary Core:</u> | Credits: | Course #: |
|--|-----------------|------------------|
| Foundations of Physical Rehabilitation Science I,II (2 semesters) | 6 | PTRS689 |
| <u>Research Seminar:</u> I-IV (4 semesters) | 4 | PTRS788 |
| Total: 10 | | |
| <u>Tools Core:</u> | | |
| Graduate Seminar in Teaching I | 1 | PTRS702 |
| Analog Circuits, Measurement & Control | 3 | KNES689N |
| Physiological Signal Processing | 3 | KNES689U |
| Special Topics: Human Motion Analysis | 3 | PTRS688 |
| Principles of Biostatistics | 3 | PREV 620 |
| Correlation and Regression Analysis | 3 | EDMS653 |
| Total: 16 | | |
| <u>Neuromotor Control Concentration Area:</u> | | |
| Neuroplasticity | 2 | PTRS780 |
| Independent Studies | | |
| I. Hemiplegic Gait Analysis | 3 | PTRS798 |
| II. TMS in the Study of Neuroplasticity | 3 | PTRS798 |
| III. The Neurophysiology of Plasticity | 3 | PTRS798 |
| IV Writing assignments (various) | 6 (1 each) | PTRS798 |
| Motor Behavior | 2 | PTRS712 |
| Motor Control Theory | 3 | KNES689I |
| Total: 22 | | |
| <u>Doctoral Dissertation Research:</u> | 12 | PTRS899 |

Grand Total: 60