

HEALTH AND HUMAN SERVICES: REHABILITATION SCIENCE AND TECHNOLOGY (PH.D.)

<https://www.unh.edu/program/doctor-philosophy/health-human-services-rehabilitation-science-technology>

Description

The PhD Option in Rehabilitation Science and Technology aims to prepare students to conduct clinical and translational research to advance the development and implementation of information communication, assistive and rehabilitative technologies to promote health, wellbeing, and healthcare equity. The program will combine the strengths of individual departments as well as ongoing and emerging interdisciplinary research programs across colleges at UNH.

The foundational core of the program in year one introduces students in all Options to the key theoretical tenets and basic sciences in health and human services and establishes fundamental knowledge of research methods, data gathering and analytical techniques. Students then progress into their enrolled Option with a documented degree plan for years two through four.

The Option on Rehabilitation Science and Technology will bring an interdisciplinary focus to the design, development, testing and implementation of cutting-edge innovations in information communication, assistive, and rehabilitative technologies that have wide-ranging implications to promote health, rehabilitation, and community living of individuals with disabilities and chronic health conditions.

Requirements

Degree Requirements

The PhD program Options in Health and Human Services have the following requirements:

- A minimum of 40-50 credits are required to complete the program.
- Students must maintain an overall GPA of 3.0 and earn a minimum of B- in all courses.
- Students must create a documented Individualized Degree Plan in consultation with their program mentor by the end of first year that outlines a systematic plan for completion of their PhD within four to five years.
- Students must pass a comprehensive exam specific to their enrolled Option at the end of year two.
- Students will be assigned individualized yearly milestones by the mentorship committee pertinent to securing academic support grants, career advancement, and dissemination of research.

Code	Title	Credits
Requirements		
<i>Foundational Course</i>		
HHS 902	Philosophy of Science and Theory Development in Health and Human Services	3
<i>Research Methods</i>		

Select one course from the following:		3-4
SOC 902	Sociological Methods II: Research Design	
OT 882	Research Methods and Application	
RMP 992	Research Methods in Recreation Management and Policy	
<i>Statistics and Quantitative Analysis</i>		
Select one course from the following:		3-4
PHP 903	Biostatistics	
MATH 835	Statistical Methods for Research	
<i>Introduction to Qualitative Research</i>		
HDS 806	Qualitative Inquiry in Health Outcomes Research	3
<i>Scientific Writing & Grantsmanship</i>		
NR 905	Grant Writing	2
<i>Professional Seminar Series</i>		
HHS 901	Seminar Series in Health and Human Services	6
<i>Rehabilitation Science and Technology Option</i>		
HHS 904	Foundations in Rehabilitation Science and Technology	3
<i>Advanced Methods</i>		
Select one course from the following:		4
SOC 903	Sociological Methods III: Advanced Social Statistics	
HDS 805	Applied Machine Learning in Healthcare	
HDS 823	Advanced Statistics in Healthcare	
MATH 836	Advanced Statistical Modeling	
MATH 838	Data Mining and Predictive Analytics	
MATH 839	Applied Regression Analysis	
MATH 840	Design of Experiments I	
MATH 841	Survival Analysis	
MATH 843	Time Series Analysis	
MATH 844	Design of Experiments II	
EDUC 982	Qualitative Fieldwork & Data Analysis	
<i>Research Practicum</i>		
HHS 905	Graduate Research Practicum	2
Grant Writing, Literature Review or Project		3
<i>College Teaching Practicum</i>		
HHS 906	Graduate Teaching Practicum	2
<i>Electives</i>		
Elective courses selected in consultation with mentor.		3-6
<i>Comprehensive Exam</i>		
Students must pass an option-focused comprehensive exam.		
<i>Dissertation</i>		
HHS 999	Doctoral Research	0
Total Credits		37-42

Student Learning Outcomes

Program Learning Outcomes

- Generate new knowledge that addresses significant gaps in rehabilitation and health-based technology and disseminate research findings in scholarly platforms;
- Establish a credible identity in the field of rehabilitation science and technology through impactful research conducted with scientific rigor, ethics, and reproducibility
- Apply conceptual frameworks of health equity, social justice and social determinants of health and well-being towards the advancement of health-based technology to address the needs of vulnerable populations
- Assume future leadership roles in the field of rehabilitation science and technology through clinical and translational research in academic, administrative, and policy settings;
- Use collaborative, interdisciplinary, and innovative approaches to knowledge generation in rehabilitation science and technology through core principles of team science.