# PhD Plan of Studies

## Prerequisites
- Statistics or Discrete Math
- Cognitive Psychology
- Systems Analysis & Design
- Data Structures
- Database Management

## Core Courses (12 credits required)

**Research methods cluster:**
- INFSCI 2040 RESEARCH DESIGN
- INFSCI 2160 DATA MINING
- INFSCI 2591 ALGORITHM DESIGN

**Foundations cluster:**
- INFSCI 2120 INFORMATION AND CODING THEORY
- INFSCI 2125 NETWORK SCIENCE AND ANALYSIS
- INFSCI 2130 DECISION ANAL AND DECISION SUP SYSTEMS
- INFSCI 2150 INFORMATION SECURITY AND PRIVACY
- INFSCI 2170 CRYPTOGRAPHY
- INFSCI 2410 INTRODUCTION TO NEURAL NETWORKS

**Design cluster:**
- INFSCI 2430 SOCIAL COMPUTING
- INFSCI 2460 SPATIAL REASONING FOR GIS
- INFSCI 2470 INTERACTIVE SYSTEM DESIGN
- INFSCI 2620 DEVELOPING SECURE SYSTEMS

**Information cluster:**
- INFSCI 2140 INFORMATION STORAGE AND RETRIEVAL
- INFSCI 2415 INFORMATION VISUALIZATION
- INFSCI 2490 ADAPTIVE INFORMATION SYSTEMS
- INFSCI 2711 ADVANCED TOPIC IN DATABASE MANAGEMENT
- INFSCI 2801 GEOSPATIAL INFORMATION SYSTEMS

## Seminars (9 credits required)
- INFSCI 3005 INTRO TO DOC STUDIES

## Independent Study (6 credits required)

## Advanced Statistics (3 credits required)

## Dissertation Credits (18 credits required)
- Preliminary Examination
- Comprehensive Examination
- Dissertation Proposal
- Dissertation Defense