I-Courses

Full-time Ph.D. students must take at least 2 foundation courses and at least 1 "I" course in first year. However, it is expected that most students will take all 3 foundation courses in first year. Students should contact course instructors to ensure they have the necessary background.

Interaction Core

- GCCIS-HCIN-600  Research Methods (HCI)
- GCCIS-HCIN-610  Foundations of HCI
- GCCIS-HCIN-660  Fundamentals of Instructional Technology
- GCCIS-HCIN-700  Current Topics in HCI
- GCCIS-HCIN-722  HCI with mobile, wearable, and ubiquitous devices
- GCCIS-ISTE-782  Visual Analytics

Infrastructure Core

- GCCIS-SWEN-610  Foundations of Software Engineering
- GCCIS-CSCI-651  Foundations of Computer Networks
- GCCIS-CSCI-652  Distributed Systems
- GCCIS-CSCI-654  Foundations of Parallel Computing
- KGCOE-CMPE-661  Hardware and Software Design for Cryptographic Applications
- GCCIS-CSEC-741  Sensor and SCADA Security

Informatics Core

- GCCIS-CSCI-620  Introduction to Big Data
- GCCIS-CSCI-630  Foundations of Artificial Intelligent
- GCCIS-CSCI-662  Foundations of Cryptography
- KGCOE-CMPE-677  Machine Intelligence
- GCCIS-CSEC-720  Deep Learning Security
- GCCIS-CSCI-723  Graph Databases
- GCCIS-CSCI-740  Programming Language Theory
- GCCIS-CISC-862  Computational Modeling and Simulation
- GCCIS-CISC-863  Statistical Machine Learning

Note: I-courses should be available to the GCCIS PhD students without requiring them to take other prerequisite courses.

Alternative I-courses to fulfill the I-courses requirement

When I-courses listed above are not available, appropriate graduate courses can be used to fulfill the I-courses requirement if they are selected from the Golisano College Ph.D. program or graduate programs in Golisano College, the College of Engineering, or the College of Science, and approved by the advisor and the Ph.D. director.

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1 This list was updated by the Curriculum and Assessment Committee and Ph.D. faculty in March 2020.