I-Courses[1]

The I-courses are intended to expose our students to broad foundations in intra-disciplinary computing. Ph.D. students are required to take three I-courses, one from each of the **I**nteraction, **I**nfrastructure, and **I**nformatics categories.

Interaction Core

- GCCIS-HCIN-600   Research Methods (HCI)
- GCCIS-HCIN-610   Foundations of HCI
- GCCIS-HCIN-700   Current Topics in HCI
- GCCIS-HCIN-722   HCI with mobile, wearable, and ubiquitous devices
- GCCIS-IGME-740   Game Graphics Programming
- 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
- GCCIS-CSEC-741   Internet of Things Security

Informatics Core

- GCCIS-CSCI-620   Introduction to Big Data
- GCCIS-CSCI-630   Foundations of Artificial Intelligence
- GCCIS-CSCI-636   Information Retrieval
- 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-863   Statistical Machine Learning

Note: I-courses should be available to the GCCIS PhD students without requiring them to take other pre-requisite 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. Taking a more advanced RIT course which has an I-course as a pre-requisite can be used as an alternate.

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[1] This list was updated by the Curriculum and Assessment Committee and Ph.D. faculty in December, 2022.