

Courses eligible to double count for both Human-Centered Design and Development BS/Informatics MS

- GR courses (IST 504 required) used in the HCDD application focus area.
- UG courses used as graduate specialization course requirement.

Course	Title	Credits
IST 402	Emerging Issues and Technologies	3.0
IST 411	Distributed-Object Computing	3.0
IST 412	The Engineering of Complex Software Systems	3.0
IST 504	Foundations of Theories and Methods of Information Sciences and Technology Research	3.0
IST 505	Foundations of Research Design in Information Sciences and Technology	3.0
IST 543	Foundations of Software Security	3.0
IST 815	Foundations of Information Security and Assurance	3.0
IST 820	Cybersecurity Analytics	3.0

****Culminating Experience – Thesis or Scholarly paper**

Students may choose a thesis or scholarly paper to fulfill the culminating experience.

Thesis

Students who choose the thesis option must register for 6 credits of IST 600 or IST 610, write a satisfactory thesis accepted by the master's committee, the head of the graduate program, and the Graduate School, and pass a thesis defense. Selecting the thesis option may require more than 1-year to complete. We recommend you take IST 505 if you choose the thesis option, it can be applied as an elective.

Scholarly Paper

Students who choose the scholarly paper option must register for at least 3 credits of IST 594 and complete the scholarly paper. The scholarly paper will be a focused piece of technical work that applies the student's expertise and knowledge base, and that is documented and presented as a scholarly paper report.

Note: Students who choose the thesis or scholarly paper have the option to work on their research project in more than one semester.