Interdisciplinary Masters' Program in Information Security
School of Technology Requirements

Area A. Core Courses
--- CS 52600   Information Security   **or**   C&IT 55500 Advanced Network Security
--- CS 55500   Cryptography   **or**   ECE 62700 Intro to Cryptography & Secure Communication
--- PHIL 52400   **or**   PHIL 58000N†   **or**   TECH 62100
   Contemporary Ethical Theory   Proseminar in Philosophy   Information Assurance Ethics
--- POL 62100   Proseminar in Science, Technology, and Politics
--- SOC 51900—**or** equivalents; e.g. TECH 62100 Technology and Policy
--- TECH 69800 (for the thesis option only; e.g. C&IT 69800 or IT 69800)

Area B. In-Depth Courses
One of the following courses:

STAT	50200	Experimental Statistics II
	51200	Applied Regression Analysis
	51300	Statistical Quality Control

Any two of the following courses:

AGEC	59600F	Forensic Economics I
	60800	Benefit-Cost Analysis
	68500	Advanced Quantitative Methods For Decision Making Under Uncertainty
	69100K†	Research in Agricultural Economics
ASM	59100A	Foundations in Homeland Security (CNIT 58100)
	59100B	Managing Resources and Applications for Homeland Security (CNIT 58100)
	59100S	Agro-Security Issues
AT	57300	Foundations in Homeland Security
	58100B	Transportation Security Operations
COM	55900	Current Trends In Mass Communication Research
	59000R†	Directed Study Of Special Problems
CNIT	42100	Small Scale Digital Device Forensics
	45500	Network Security
	45600	Wireless Network Security & Management
	49900C	Cyberforensics: Advanced Technical Issues
	52800	Information Security Risk Assessment
	55600	Basic Computer Forensics
	55700	Advanced Cyberforensics
	55800	Bioinformatics Computing And Systems Integration
	58100AIS	Applied Intelligent Systems
	58100C	Applied Cryptography
	58100HLS	Foundations in Homeland Security (ASM 59000)
	58100	Managing Resources and Applications for Homeland Security (ASM 59000)
	58100 ASI	Applied Intelligent Systems
	58100S	Information Security Management
	58100V	Current Topics in Cyber Forensics
	58100Z	Programming for the Internet
	62300R	Risk and Technology
CS	50300	Operating Systems
	53600§	Data Communication and Computer Networks
	56500	Programming Languages
	58000	Algorithm Design, Analysis, and Implementation
	59000W†	Topics In Computer Sciences
	62600	Advanced Information Assurance
	63600	Internetworking
	65500	Advanced Cryptology

CSR	63100	Consumer Behavior Theory
ECE	56500	Computer Architecture
	57200	Fault-Tolerant Computer Systems
	57400	Software Engineering Methodology
	63200	Mach Learn & Data Mining
	66900	Natural Language Processing (LING 68900)
ECET	52500	Applications in Forensic Engineering Technology
ECON	60700	Microeconomic Theory I
	61000	Game Theory
IE	53000	Quality Control
	53200	Reliability
	54800	Knowledge-Based Systems
	55900§	Cognitive Engineering Of Interactive Software
	57700§	Human Factors in Engineering
	65900	Human Aspects of Computing
	67400	Computer And Communication Methods For Production Control
IT	54500	Biometrics Technology And Applications
LING	68900N	Natural Language Process (ECE 66900)
MGMT	54700§	Computer Communication Systems
	59000	Information Risk Management
	59000	Digital Game Design Techniques
	68400	Information Security for Managers
OBHR	68100	Behavior Organization
	68300	Individual Behavior in Organizations
PHIL	52400*	Contemporary Ethical Theory
	58000†*	Proseminar in Philosophy
	62400†	Seminar in Ethics
POL	56200€	Administrative Law And Policy Making
	60700€	Public Policy Evaluation
	62000	Proseminar Public Policy
	62100	Proseminar In Science, Technology, And Politics
	66000€	Research Seminar On Public Law And Judicial Behavior
PSY	55500	Cognitive Engineering Of Interactive Software
	57700§	Human Factors in Engineering
	58500	Psychological Foundations of Consumer Behavior
	62900	Motivation
STAT	51400	Design of Experiments
	51700	Statistical Inference

Color Key
If Course Title Relevant

Area C. Breadth Courses

(It is preferable to take these before the 4th semester and your thesis work):
IT   50700   Measurement and Evaluation in Industry and Technology
TECH   64600   Analysis Of Research In Industry And Technology

Courses from <u>at least three different graduate programs</u> should be taken between Areas B and C. Other courses, often under variable numbers and offered on a one-time or occasional basis, may be of interest. Students are encouraged to bring those courses to the attention of their advisors, who may recommend these to other students and approve the substitution of these courses for some courses listed above.

Under the thesis option, the master's thesis must be completed and defended in an oral examination administered by the Advisory Committee. Under the examination option, a 3-hour written examination is administered by the student's Advisory Committee. This option is rarely employed and only in unusual circumstances.

§ Note: May take one or the other of the following but not both:

CS 53600 or ECE 56000 or MGMT 54700
PSY 57700 or IE 57700
PSY 55500 or IE 55900

* unless taken under Area A
† When content is appropriate
€ not offered in recent years due to staff shortages.