



Interdisciplinary Masters' Program in Information Security

Department of Philosophy 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 Contemporary Ethical Theory **or** PHIL 58000N† **or** TECH 62100 Information Assurance Ethics
- POL 62100 Proseminar in Science, Technology, and Politics
- SOC 51900—**or** equivalents; e.g. TECH 62100 Technology and Policy
- PHIL 69800 Research MA Thesis (for the thesis option only)

Area B. Recommended Courses

Any three of the following courses:

AGEC	59600	Forensic Economics I	ECE	56500	Computer Architecture
	60800	Benefit-Cost Analysis		57200	Fault-Tolerant Computer Systems
	68500	Advanced Quantitative Methods For Decision Making Under Uncertainty		57400	Software Engineering Methodology
	69100K†	Research in Agricultural Economics		63200	Mach Learn & Data Mining
ASM	59100	Managing Resources and Applications for Homeland Security	ECET	52500	Applications in Forensic Engineering Technology
	59100S	Agro-Security Issues	ECON	60700	Microeconomic Theory I
AT	57300	Foundations in Homeland Security		61000	Game Theory
	58100B	Transportation Security Operations	IE	53000	Quality Control
COM	55900	Current Trends In Mass Communication Research		53200	Reliability
	59000R	Directed Study Of Special Problems		54800	Knowledge-Based Systems
CNIT	42100	Small Scale Digital Device Forensics		55900§	Cognitive Engineering Of Interactive Software
	45500	Network Security		57700§	Human Factors in Engineering
	45600	Wireless Network Security & Management		65900	Human Aspects of Computing
	49900C	Cyberforensics: Advanced Technical Issues		67400	Computer And Communication Methods For Production Control
	52800	Information Security Risk Assessment	IT	54500	Biometrics Technology And Applications
	55600	Basic Computer Forensics	LING	68900N	Natural Language Process (ECE 66900)
	55700	Advanced Cyberforensics	MGMT	54700§	Computer Communication Systems
	55800	Bioinformatics Computing And Systems Integration		59000	Forensic Accounting
	58100AIS	Applied Intelligent Systems		68400	Information Security for Managers
	58100C	Applied Cryptography	OBHR	68100	Behavior Organization
	58100HLS	Foundations in Homeland Security (ASM 59000)		68300	Individual Behavior in Organizations
	58100	Managing Resources and Applications for Homeland Security (ASM 59000)	PHIL	52400*	Contemporary Ethical Theory
	58100S	Information Security Management		58000*†	Proseminar in Philosophy
	58100V	Current Topics in Cyber Forensics		62400†	Seminar in Ethics
	58100Z	Programming for the Internet	POL	56200€	Administrative Law And Policy Making
	62300R	Risk and Technology		60700€	Public Policy Evaluation
COM	55700	Legal Dimensions Of Communication		62000	Proseminar Public Policy
	63200G†	Seminar: Special Topics In Mass Communication		62100*	Proseminar In Science, Technology, And Politics
	50300	Operating Systems		66000€	Research Seminar On Public Law And Judicial Behavior
CS	53600§	Data Communication and Computer Networks	PSY	52100	Introduction to Applied Behavior Analysis
	56500	Programming Languages		55500§	Cognitive Engineering Of Interactive Software
	58000	Algorithm Design, Analysis, and Implementation		57700§	Human Factors in Engineering
	59000W	Topics In Computer Sciences		58500	Psychological Foundations of Consumer Behavior
	62600	Advanced Information Assurance		62900	Motivation
	63600	Internetworking	STAT	50200	Experimental Statistics II
	65500	Advanced Cryptology		51200	Applied Regression Analysis
CSR	63100	Consumer Behavior Theory		51300	Statistical Quality Control
				51400	Design of Experiments
				51700	Statistical Inference

Area C. Elective Courses

Any two of the following courses:

ASM	59100A	Foundations in Homeland Security	LING	50000	Introduction to Linguistics
CNIT	52800	Information Security Risk Assessment		53100	Semantics I: Lexical And Sentential Semantics
	55700	Advanced Cyberforensics		53200	Semantics II: Formal And Grammatical Semantics
	58100V	Current Topics in Cyber Forensics	MGMT	50500	Management Accounting II
CS	50200	Compiling and Programming Systems		50600	Auditing
	54100	Database Systems		54400	Database Management Systems
	54200	Distributed Database Systems		54500	Systems Development
	57300	Data Mining		56100	Logistics
ECE	54400	Digital Communications		59000E†	Directed Readings In Management
	56200	Introduction to Data Management		59000DGD	Digital Game Design Techniques
	56500	Computer Architecture		56100	Logistics
	56600	CISC Microprocessor System Design		60000	Financial Accounting
	57000	Artificial Intelligence		60100	Managerial Accounting
	57300	Compilers And Translator WritinSystems		63000	Legal and Social Foundations of Management
	63200	Machine Learning & Data Mining		68300	Princ of Info Systems
ECET	58100	Selected Topics in Sensors	OBHR	64200	Comp And Reward Syst I
ECON	67600	Economics of Uncertainty and Information I		64300	Comp And Reward Sys II
	67700	Economics of Uncertainty and Information II		66300	Sem In Orgnztn Theory
EDCI	64400	Legal Issues in Career and Technical Education		66700	Team Work
FNR	55800	Digital Remote Sensing and GIS	POL	62200	Research Seminar In Public Policy & Public Administration
			PSY	55600	Job Design
				57900	Human Factors Laboratory
			TECH	64600	Analysis Of Research In Industry And Technology

Courses from at least three different graduate programs 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
 TECH 50800 or STAT 51300

* unless taken under Area A

† When content is appropriate

€ not offered in recent years due to staff shortages.