

Interdisciplinary Masters' Program in Information Security Department of Linguistics Requirements

In addition to the courses listed in the requirement areas, the various departments and programs occasionally offer new courses and courses on specific topics that may meet area requirements, especially when they are taught by CERIAS principals and fellows. These include TECH 621 (when taught by Prof. Dark), CNIT 623 and 499 (Prof. Taylor), CNIT 581, LING 689 (Prof. Raskin), some CS 590 offerings, and others. The INSC program administration will announce such courses when they are available, but students are welcome to ask about any courses that might not be otherwise listed."

Courses are not taught every semester so your plan of study should take this into account.

Area A. Core Courses

--- CS 52600 Information Security or C&IT 55500 Advanced Network Security

--- CS 55500 Cryptography

--- PHIL 52400 or PHIL 58000N† or TECH 62100
Contemporary Ethical Theory Proseminar in Philosophy Information Assurance Ethics

--- POL 62000† Proseminar in Public Policy OR --- TECH 62100 Tech & Policy

--- LING 69800 Research MA Thesis (for the thesis option only)

Area B. Recommended Courses

LING 68900 Natural Language Process (ECE 66900)

One of the following courses:

LING 52100 Syntax I: Syntactic Analysis

LING 53100 Semantics I: Lexical And Sentential Semantics

One of the following courses:

		Denefit Cost Analysis		E0000+	Directed Otada of Onesial Droblems
AGEC	60800	Benefit-Cost Analysis		59000†	Directed Study of Special Problems
	69100K†			<mark>63200†</mark>	Seminar: Special Topics In Mass
ASM	53200	Contemporary Issues in Transportation Sec			Communication
	59100†	Special Topics	CS	50300	Operating Systems
		Managing Resources and Applications		53600§	Data Communication and Computer
		for Homeland Security			Networks
		Agro-Security Issues		56500	Programming Languages
ΑT	58100B	Transportation Security Operations		58000	Algorithm Design, Analysis, and
CNIT	42100	Small Scale Digital Device Forensics			Implementation
	45500	Network Security		59000†	Topics In Computer Sciences
	45600	Wireless Network Security & Management		62600	Advanced Information Assurance
	<mark>49900†</mark>	Topics in Computer and Information		63600	Internetworking
		Technology		65500	Advanced Cryptology
	51100	Foundations in Homeland Security	CSR	63100	Consumer Behavior Theory
	51200	Managing Resources and Applications for	ECE	56500	Computer Architecture
		Homeland Security	ECET	52500	Applications in Forensic Engineering Tech
	55600	Basic Computer Forensics	ECON	60600	Microeconomic Theory I
	55700	Advanced Cyberforensics		61000	Game Theory
	55800	Bioinformatics Computing And Systems	ΙE	53000	Quality Control
		Integration		53200	Reliability
	58100†	Workshop in Computer Technology		57700§	Human Factors in Engineering
		Applied Intelligent Systems		65900	Human Aspects of Computing
		Applied Cryptography		67400	Computer And Communication Methods For
		Foundations in Homeland Security			Production Control
		Managing Resources and Applications	ΙΤ	53000	Biometric Technology Test Design,
		for Homeland Security		Perform	ance, and Evaluation
		Information Security Management		54000	Biometric Performance and Usability Analysis
		Current Topics in Cyber Forensics		54500	Biometrics Technology And Applications
		Programming for the Internet		58100+	Biometric Data Analysis
	62300 †	Contemporary Computer Technology Problems	LING	59300†	Natrl Lang Knowledge Representn
		Risk and Technology		68900+	
		Nat Lang Info Assur & Sec Sem	MGMT	54700§	Computer Communication Systems
COM	55900	Current Trends in Mass Comm Research		59000+	Directed Readings In Management
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		STAT	50200	Experimental Statistics II
68400	Information Security for Managers		51200	Applied Regression Analysis
68100	Behavior Organization		51300	Statistical Quality Control
68300	Individual Behavior in Organizations		51400	Design of Experiments
52400*	Contemporary Ethical Theory		51700	Statistical Inference
58000 †	Proseminar in Philosophy	TECH	58100 †	Workshop in Technology
<mark>62400†</mark>	Seminar in Ethics		<mark>62100†</mark>	Seminar in Technology
<mark>62000†</mark>	Proseminar Public Policy			
57700§	Human Factors in Engineering			
	68100 68300 52400* 58000† 62400† 62000†	68100 Behavior Organization	68400 Information Security for Managers 68100 Behavior Organization 68300 Individual Behavior in Organizations 52400* Contemporary Ethical Theory 58000† Proseminar in Philosophy TECH 62400† Seminar in Ethics 62000† Proseminar Public Policy	68400 Information Security for Managers 51200 68100 Behavior Organization 51300 68300 Individual Behavior in Organizations 51400 52400* Contemporary Ethical Theory 51700 58000† Proseminar in Philosophy TECH 58100† 62400† Seminar in Ethics 62100†

Area C. Elective Courses

Any two of the following courses:

CNIT	55700	Advanced Cyberforensics			
	58100 +	Workshop in Computer Technology	MGMT	50500	Management Accounting II
	62300	Research Methods for Computing		50600	Auditing
CS	50200	Compiling and Programming Systems		54400	Database Management Systems
	54100	Database Systems		54500	Systems Development
	54200	Distributed Database Systems		56100	Logistics
	57300	Data Mining		<mark>59000†</mark>	Directed Readings In Management
ECE	54400	Digital Communications		60000	Financial Accounting
	56200	Introduction to Data Management		60100	Managerial Accounting
	56500	Computer Architecture		63000	Legal and Social Foundations of
	57000	Artificial Intelligence			Management
	57300	Compilers And Translator Writing		68300	Principles Of Information Systems
		Systems	OBHR	64200	Compensation And Reward Systems I
ECET	58100 †	Selected Topics in Sensors		64300	Compensation And Reward Systems II
FNR	55800	Digital Remote Sensing and GIS	POL	62200	Research Seminar In Public Policy And
LING	50000	Introduction to Linguistics			Public Administration
	53100	Semantics I: Lexical And Sentential	STAT	69500T	Asym Stat And Empr Prcs
		Semantics		69500V	Data Visualization
	<mark>68900†</mark>	Seminar in Linguistics			

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 IF 57700

€ not offered in recent years due to staff shortages.

^{*} unless taken under Area A

[†] When content is appropriate If Course Title Relevant