



## 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 62400† **or** TECH 62100  
     Contemporary Ethical Theory Seminar in Ethics Information Assurance Ethics
- May substitute PHIL 411 or PHIL 424 if PHIL 52400 is Not offered in a year
- POL 62000† Proseminar in Public Policy **OR** --- TECH 62100 Tech & Policy
- LING 69800 Research MA Thesis (for the thesis option only)

\*\*PHIL 58000 is no longer available, but if you have already taken PHIL 58000, it will be recognized as meeting your requirements.

#### 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

--SFS Students must take Applied Research Problems in National Information Security TECH 58100

*One of the following courses:*

AGEC 60800	Benefit-Cost Analysis		Communication Theory
69100†	Research in Agricultural Economics		Communication Pedagogy
AT 53200	Contemporary Issues in Transportation Sec	CS 63200†	Seminar: Special Topics In Mass Comm
CNIT 42100	Small Scale Digital Device Forensics	50300	Operating Systems
45500	Network Security	52700	Software Security
45600	Wireless Network Security & Management	52800	Network Security
49900†	Topics in Computer and Info Technology	53600§	Data Communication and Computer Networks
51100	Foundations in Homeland Security		
51200	Managing Resources and Applications for Homeland Security	56500	Programming Languages
		59000†	Independent Study/Varibale Topics
55600	Basic Computer Forensics		Advanced Machine Learning
55700	Advanced Cyberforensics		Computer Aided Prog Reasoning
55800	Bioinformatics Computing And Systems Integration		Network & Matrix Computations
			Security Analytics
58100†	Workshop in Computer Technology	62600	Advanced Information Assurance
	File Systems Forensics	63600	Internetworking
	Intro Assistive Tech & Robotics	65500	Advanced Cryptology
	Mobile & Embedded Devie Foren	CSR 63100	Consumer Behavior Theory
	The Internet of Things	ECE 56500	Computer Architecture
	Natural Language Technologies	ECET 52500	Applications in Forensic Engineering Tech
	Prob in Natl Info Security	ECON 60600	Microeconomic Theory I
62300†	Contemporary Computer Tech Problems	61000	Advanced Game Theory
	Applied Statistics in IT	EDPS 53300	Intro to Educational Research I: Methodology
COM 62300	Research Methods for Computing	ENE 69500	Adv Topics in Engineering Education
55900	Current Trends in Mass Comm Research	IE 53000	Quality Control
59000†	Directed Study of Special Problems		

	53200	Reliability		68400	Information Security for Managers
	57700§	Human Factors in Engineering	OBHR	68100	Behavior Organization
	65900	Human Aspects of Computing		68300	Individual Behavior in Organizations
	67400	Computer And Communication Methods For Production Control	PHIL	52400*	Contemporary Ethical Theory
IT	53000	Biometric Tech Test Design, Performance, And Evaluation		58000†	Proseminar in Philosophy
	54000	Biometric Performance and Usability Analysis		62400†	Seminar in Ethics
	54500	Biometrics Technology And Applications	POL	62000†	Proseminar Public Policy
	58100†	Biometric Data Analysis	PSY	57700§	Human Factors in Engineering
LING	59300†	Special Topics in Semantics	STAT	50200	Experimental Statistics II
	68900†	Seminar in Linguistics		51200	Applied Regression Analysis
	69800	Natrl Language Processes		51300	Statistical Quality Control
MGMT	54700§	Computer Communication Systems		51400	Design of Experiments
	59000†	Directed Readings In Management Sem Tech Realztn Tpc II IT Project Management	TECH	51700	Statistical Inference
				58100†	Workshop in Technology
				62100†	Seminar in Technology

### Area C. Elective Courses

Any two of the following courses:

	50500	Management Accounting II		50600	Auditing
CNIT	58100†	Workshop in Computer Technology		54400	Database Management Systems
CS	50200	Compiling and Programming Systems		54500	Systems Development
	54100	Database Systems		56100	Logistics
	54200	Distributed Database Systems		59000†	Directed Readings In Management Sem Tech Realztn Tpc II IT Project Management
	57300	Data Mining		60000	Accounting for Managers
ECE	54400	Digital Communications		60100	Managerial Accounting
	56200	Introduction to Data Management		63000	Legal and Social Foundations of Management
	56500	Computer Architecture		68300	Principles Of Information Systems
	57000	Artificial Intelligence	OBHR	64200	Compensation And Reward Systems I
	57300	Compilers And Translator Writing Systems		64300	Compensation And Reward Systems II
ECET	58100†	Workshop in Electrical and Computer Engineering Technology	POL	62200	Research Seminar In Public Policy And Public Administration
		Selected Topics in Sensors		69500†	Seminar in Mathematical Statistics
FNR	55800	Digital Remote Sensing and GIS			
LING	50000	Introduction to Linguistics			
	53100	Semantics I: Lexical And Sentential Semantics			
	68900†	Seminar in Linguistics			

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

\* unless taken under Area A

† When content is appropriate If Course Title Relevant

€ not offered in recent years due to staff shortages.