



Interdisciplinary Masters' Program in Information Security

Department of Communication 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."

Area A. Core Courses (6)

--- CS 52600 Information Security **or** CNIT 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
 --- COM 69800 Research MA or MS Thesis (for the thesis option only)

One of the following:

COM 51800 Theories Of Persuasion COM 55800 Historical Trends In Mass Communication Research
 COM 57400 Organizational Communication

Area B. Recommended Courses (3)

One of the following courses: COM 51800, 55800, 57400,

COM 55900 Current Trends In Mass Communication Research
COM 59000† Directed Study Of Special Problems
COM 63200† Special Topics In Mass Communication

Any two of the following courses:

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

AGEC	60800	Benefit-Cost Analysis	59000†	Topics In Computer Sciences
	69100†	Research in Agricultural Economics		Fault-tolerant Computer System Design
ASM	59100†	Special Topics	62600	Advanced Information Assurance
	59100	Managing Resources and Applications	63600	Internetworking
CNIT	42100	Small Scale Digital Device Forensics	65500	Advanced Cryptology
	45500	Network Security	CSR	63100 Consumer Behavior Theory
	45600	Wireless Network Security & Management	ECE	56500 Computer Architecture
	49900†	Topics in Computer and Information Technology	ECET	52500 Applications in Forensic Engineering Technology
	51100	Foundations in Homeland Security	ECON	60600 Microeconomic Theory I
	51200	Managing Resources and Applications for Homeland Security		61000 Game Theory
	55600	Basic Computer Forensics	EDPS	53300 Intro to Educational Research I: Methodology
	55700	Advanced Cyberforensics	ENE	69500 Adv Topics in Engineering Education
	55800	Bioinformatics Computing And Systems	IE	53000 Quality Control
		Integration		53200 Reliability
	58100†	Workshop in Computer Technology		57700\$ Human Factors in Engineering
		Advanced Robotics Development		65900 Human Aspects of Computing
		Big Data Analysis		67400 Computer And Communication Methods For Production Control
		Advanced Topics Wireless Comm	IT	53000 Biometric Technology Test Design, Performance, and Evaluation
		Cyber Frn Cloud/Virtual Enviro		54000 Biometric Performance and Usability Analysis
		The Internet of Things		54500 Biometrics Technology And Applications
	62300†	Contemporary Computer Technology Problem		58100† Biometric Data Analysis
		Nat Lang Info Assur & Sec Sem		68900† Seminar in Linguistics
CS	50300	Operating Systems	LING	
	53600\$	Data Communication and Computer Networks	MGMT	54700\$ Computer Communication Systems
				68400 Information Security for Managers
	56500	Programming Languages	OBHR	68100 Behavior Organization
	58000	Algorithm Design, Analysis, and Implementation		68300 Individual Behavior in Organizations

Color Key

If Course Title Relevant

Last Revised 4/27/15

PHIL	52400*	Contemporary Ethical Theory	TECH	51300	Statistical Quality Control
	58000†	Proseminar in Philosophy		51400	Design of Experiments
	62400†	Seminar in Ethics		51700	Statistical Inference
POL	62000†	Proseminar Public Policy		58100†	Workshop in Technology
	57700§	Human Factors in Engineering		62100†	Seminar in Technology
STAT	50200	Experimental Statistics II			
	51200	Applied Regression Analysis			

Area C. Elective Courses (one of the following)

Any of the following variable topic courses, presuming instructor consent is obtained:

COM 61000 Seminar: Special Topics In Rhetorical Studies	COM 63200S Special Topics In Mass Communication
COM 61200 Seminar: Special Topics In Interpersonal Com	COM 67400† Seminar: Special Topics In Organizational Com
COM 61800 Seminar: Special Topics In Persuasion Theory	COM 67600† Seminar: Special Topics in Health Com

CNIT	58100†	Workshop in Computer Technology	53100	Semantics I: Lexical And Sentential Semantics
	62300†	Contemporary Computer Technology Problems	MGMT	50500 Management Accounting II
**COM	59000F	Communication Theory		50600 Auditing
	59000G	Communication & Pedogogy		54400 Database Mangement Systems
	60000	Foundations Of Human Communication Inquiry I		54500 Systems Development
	60100	Foundations Of Human Communication Inquiry II		56100 Logistics
CS	50200	Compiling and Programming Systems		59000† Directed Readings In Management Design: Soc Networks & Engmts
	54100	Database Systems		60000 Financial Accounting
	54200	Distributed Database Systems		60100 Managerial Accounting
ECE	54400	Digital Communications		63000 Legal and Social Foundations of Management
	56200	Introduction to Data Management		68300 Princ of Info Systems
	56500	Computer Architecture	OBHR	64200 Comp And Reward Syst I
	57000	Artificial Intelligence		64300 Comp And Reward Sys II
	57300	Compilers And Translator Writing Systems	POL	62200 Research Seminar In Public Policy And Public Administration
ECET	58100†	Selected Topics in Sensors	STAT	69500† Seminar in Mathematical Statistics
FNR	55800	Digital Remote Sensing and GIS		
LING	50000	Introduction to Linguistics		

(replaces TECH 64600) (Beginning Fall 2013)

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 MGMT 54700
PSY 57700 or IE 57700

Note that COM 59000F and 59000G as well as COM 60000 and 60100 are restricted to **only COM Ph.D. students.

* unless taken under Area A

† When content is appropriate

€ not offered in recent years due to staff shortages.