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 58000† Contemporary Ethical Theory or Proseminar in Philosophy or TECH 62100 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 57400 Contemporary Ethical Theory
COM 69800 Research MA or MS Thesis (for the thesis option only)

Area B. Recommended Courses (3)
One of the following courses: COM 51800, 55800, 57400,
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
AGEC 69100† Research in Agricultural Economics
ASM 59100† Special Topics
ASM 59100 Managing Resources and Applications
CNIT 42100 Small Scale Digital Device Forensics
CNIT 45500 Network Security
CNIT 45600 Wireless Network Security & Management
CNIT 49900† Topics in Computer and Information Technology
CNIT 51100 Foundations in Homeland Security
CNIT 51200 Managing Resources and Applications for Homeland Security
CNIT 55600 Basic Computer Forensics
CNIT 55700 Advanced Cyberforensics
CNIT 55800 Bioinformatics Computing And Systems Integration

58100† Workshop in Computer Technology
58100† Advanced Robotics Development
58100† Big Data Analysis
58100† Advanced Topics Wireless Comm
58100† Cyber Fnn Cloud/Virtual Enviro
58100† The Internet of Things

ECE 69900† Topics in Computer and Information Technology
EDPS 53300 Intro to Educational Research I: Methodology
ENR 69500 Adv Topics in Engineering Education

53000† Quality Control
53200† Reliability
57700§ Human Factors in Engineering
56900 Game Theory
56900§ Human Aspects of Computing
56900§ Computer Communication Systems
67400§ Computer Communication Methods
67400§ Computer And Communication Methods For Production Control
67400§ Biometric Technology Test Design, Performance, and Evaluation
67400§ Biometric Performance and Usability Analysis
67400§ Biometric Technology And Applications
58100† Biometric Data Analysis
68800† Seminar in Linguistics
68800† Education of the Deaf

62300† Contemporary Computer Technology Problem
62300† Nat Lang Info Assur & Sec Sem

CS 50300 Operating Systems
CS 53600§ Data Communication and Computer Networks
CS 56500 Programming Languages
CS 58000 Algorithm Design, Analysis, and Implementation

Color Key
If Course Title Relevant

Last Revised 4/27/15
**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 61200 Seminar: Special Topics In Interpersonal Communication**  
- **COM 61800 Seminar: Special Topics In Persuasion Theory**  
- **COM 60000 Seminar Of Human Communication Inquiry I**  
- **COM 60100 Seminar Of Human Communication Inquiry II**  
- **CS 50200 Compiling and Programming Systems**  
- **CS 54100 Database Systems**  
- **CS 54200 Distributed Database Systems**  
- **ECE 54400 Digital Communications**  
- **ECE 56200 Introduction to Data Management**  
- **ECE 56500 Computer Architecture**  
- **ECE 57000 Artificial Intelligence**  
- **ECE 57300 Compilers And Translator Writing Systems**  
- **ECET 58100† Selected Topics in Sensors**  
- **FNR 55800 Digital Remote Sensing and GIS**  
- **LING 50000 Introduction to Linguistics**

- **CNIT 58100† Workshop in Computer Technology**  
- **CNIT 62300† Contemporary Computer Technology Problems**  
- ****COM 59000F Communication Theory  
- **COM 59000G Communication & Pedagogy**  
- **CS 60000 Foundations Of Human Communication Inquiry I**  
- **CS 60100 Foundations Of Human Communication Inquiry II**  
- **CS 60200 scenario Design: Soc Networks & Engmts**  
- **CS 60300 Financial Accounting**  
- **CS 60400 Managerial Accounting**  
- **CS 60500 Legal and Social Foundations of Management**  
- **ECE 60600 Principles of Electrical Engineering**  
- **ECE 60700 Principles of Digital Logic**  
- **ECE 60800 Programming Systems**  
- **ECE 60900 Computer Architecture**  
- **ECE 61000 Microprocessor Systems**  
- **ECE 61100 Introduction to Data Management**  
- **ECE 61200 Computer Architecture**  
- **ECE 61300 Artificial Intelligence**  
- **ECE 61400 Compilers And Translator Writing Systems**

**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 61000 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.