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 58000NT
Contemporary Ethical Theory or Proseminar in Philosophy
--- 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:
AGEC 60800 Benefit-Cost Analysis 59000† Directed Study of Special Problems
69100K† Research in Agricultural Economics 63200† Seminar: Special Topics In Mass Communication
ASM 53200 Contemporary Issues in Transportation Sec 50300 Operating Systems
59100† Special Topics for Homeland Security 53600§ Data Communication and Computer Networks
CS 51000 Managing Resources and Applications 56500 Programming Languages
for Homeland Security
Agro-Security Issues
51100 Foundations in Homeland Security 58000 Algorithm Design, Analysis, and Implementation
51200 Managing Resources and Applications for Homeland Security
55600 Basic Computer Forensics
55700 Advanced Cyberforensics
55800 Bioinformatics Computing And Systems Integration
58100† Workshop in Computer Technology
Applied Intelligent Systems
Applied Cryptography
Foundations in Homeland Security
Managing Resources and Applications for Homeland Security
Information Security Management
Current Topics in Cyber Forensics
Programming for the Internet
58200† Contemproary Computer Technology Problems
Risk and Technology
Nat Lang Info Assur & Sec Sem
COM 55900 Current Trends in Mass Comm Research 59000† Directed Readings In Management
LING 59300† Natrl Lang Knowledge Representn
Area C. Elective Courses

Any two of the following courses:

- **CNIT** 55700 Advanced Cyberforensics
- **ECET** 58100† Workshop in Computer Technology
- **CS** 50200 Compiling and Programming Systems
- **ECE** 54400 Digital Communications
- **56200** Introduction to Data Management
- **56500** Computer Architecture
- **57000** Artificial Intelligence
- **57300** Compilers And Translator Writing Systems
- **58100†** Selected Topics in Sensors
- **FNR** 55800 Digital Remote Sensing and GIS
- **LING** 50000 Introduction to Linguistics
- **53100** Semantics I: Lexical And Sentential Semantics
- **57300** Workshop in Computer Technology
- **58200** Seminar in Computing

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.