Interdisciplinary Masters’ Program in Information Security
Department of Philosophy 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
--- CS 52600 Information Security or CNIT 55500 Advanced Network Security
--- CS 55500 Cryptography
--- PHIL 52400 or PHIL 62400† Contemporary Ethical Theory or PHIL 62100 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
--- PHIL 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
Any three of the following courses:

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

AGEC 60800 Benefit-Cost Analysis 53600§ Data Communication and Computer Networks
69100† Research in Agricultural Economics
AT 53200 Contempories Issues in Transportation Sec 56500 Programming Languages
52700 Software Security
CNIT 42100 Small Scale Digital Device Forensics 58000 Algorithm Design, Analysis, and Implementation
45500 Network Security
55600 Basic Computer Forensics
45600 Wireless Network Security & Management
58100† Topics in Computer and Information Technology
49900† Foundations in Homeland Security
51100 Contempories Issues in Transportation Sec
51200 Managing Resources and Applications for Homeland Security
55700 Advanced Cyberforensics
55800 Bioinformatics Computing And Systems Integration
58100† Workshop in Computer Technology
- File Systems Forensics
- Intro Assistive Tech & Robotics
- Mobile & Embedded Device Foren
- The Internet of Things
- Natural Language Technologies
- Prob In Natl Info Security
62300† Contemporary Computer Tech Problems
62300 Research Methods for Computing
COM 55900 Current Trends in Mass Comm Research
59000† Directed Study of Special Problems
- Communication Theory
- Communication Pedagogy
- Seminar: Special Topics In Mass Comm
58100† Seminar: Special Topics In Mass Comm
CS 50300 Operating Systems
52700 Software Security
52800 Network Security
57700§ Human Factors in Engineering
54000 Biometric Performance and Usability Analysis
54500 Biometrics Technology And Applications
58100† Biometric Data Analysis
LING 68900† Seminar in Linguistics
68900 Natl Language Process
MGMT 54700§ Computer Communication Systems

Last Edited: 4/24/17
Area C. Elective Courses

Any two of the following courses:

- **CNIT 58100†**: Workshop in Computer Technology
- **CS 50200**: Compiling and Programming Systems
- **54100**: Database Systems
- **54200**: Distributed Database Systems
- **57300**: Data Mining
- **ECE 54400**: Digital Communications
- **56200**: Introduction to Data Management
- **56500**: Computer Architecture
- **57000**: Artificial Intelligence
- **57300**: Compilers And Translator Writing Systems
- **ECET 58100†**: Workshop in Elec. and Comp. Engineering Technology
- **Selected Topics in Sensors**
- **FNR 55800**: Digital Remote Sensing and GIS
- **LING 50000**: Introduction to Linguistics
- **53100**: Semantics I: Lexical And Sentential Semantics
- **53200**: Semantics II: Formal and Grammatical Semantics
- **MGMT 50500**: Management Accounting II
- **50600**: Auditing
- **54400**: Database Management Systems
- **54500**: Systems Development
- **56100**: Logistics
- **59000†**: Directed Readings In Management
- **Sem Tech Realztn Tpc II IT Project Management**
- **OBHR 64200**: Comp And Reward Syst I
- **64300**: Comp And Reward Syst II
- **POL 62200**: Seminar In Public Policy & Public Administration
- **STAT 69500†**: Seminar in Mathematical Statistics

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**

* unless taken under Area A

† When content is appropriate if Course Title Relevant

€ not offered in recent years due to staff shortages.