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† 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
--- 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
AGEC  69100† Research in Agricultural Economics
AT    53200 Contemporary Issues in Transportation Sec
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

51100 Foundations in Homeland Security
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
Cyberforensics Apple Eco System
Cyberforensics of Malware
Homeland Security Seminar
Prob In Natl Info Security
Software Des & Develop Robotics

62300† Contemporary Computer Tech Problems
Applied Statistics in IT

62300 Research Methods for Computing

COM  55900 Current Trends in Mass Comm Research
COM  59000† Directed Study of Special Problems
Communication Theory
Communication Pedagogy

63200† Seminar: Special Topics In Mass Comm

CS   50300 Operating Systems
CS   52700 Software Security
CS   52800 Network Security
CS   53600 Data Communication and Computer Networks
CS   54000 Biometric Performance and Usability Analysis
CS   55700 Advanced Cyberforensics
CS   56000 Biometrics Technology And Applications
CS   57700§ Human Factors in Engineering
CS   57900 Human Aspects of Computing
CS   67400 Computer And Communication Methods For Production Control
CS   68900 Nati Language Process
CS   69500 Adv Topics in Engineering Education

EDPS  53300 Intro to Educational Research I: Methodology
ENEE  69500 Adv Topics in Engineering Education

IE    53000 Quality Control
IE    53200 Reliability
IE    57700§ Human Factors in Engineering
IE    65900 Human Aspects of Computing
IE    67400 Computer And Communication Methods For Production Control
IT    53000 Biometric Technology Test Design, Performance, and Evaluation
IT    54000 Biometric Performance and Usability Analysis
IT    54500 Biometrics Technology And Applications
IT    58100† Biometric Data Analysis
LING  68900† Seminar in Linguistics
LING  69800 Research MA Thesis (for the thesis option only)

MGMT  54700 Biometric Technology Test Design, Performance, and Evaluation
MGMT  54700§ Computer Communication Systems
MGMT  59000† Directed Readings In Management
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 Realzn Tpc II**
- **IT Project Management**
- **OBHR 68100** Behavior Organization
- **68300** Individual Behavior in Organizations
- **PHIL 52400** Contemporary Ethical Theory
- **62400** Seminar in Ethics
- **POL 62000** Seminar in Public Policy & Public Administration
- **56100** Logistics
- **56500** Computer Architecture
- **57000** Artificial Intelligence
- **57300** Compilers And Translator Writing Systems
- **PSY 57700** Human Factors in Engineering
- **STAT 50200** Experimental Statistics II
- **51200** Applied Regression Analysis
- **51300** Statistical Quality Control
- **51400** Design of Experiments
- **51700** Statistical Inference
- **TECH 58100** Workshop in Technology
- **62100** Seminar in Technology
- **MGMT 60000** Accounting for Managers
- **63000** Legal and Social Foundations of Management
- **68300** Princ of Info Systems
- **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
- **Selected Topics in Sensors**

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

€ not offered in recent years due to staff shortages.