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 62400† Contemporary Ethical Theory or PHIL 62100 Seminar in Ethics or TECH 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
--- LING 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

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

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

One of the following courses:

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
45500 Network Security
45600 Wireless Network Security & Management
49900† Topics in Computer and Info 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
Research Methods for Computing
62300 COM Current Trends in Mass Comm Research
55900 Directied Study of Special Problems
59000† Communication Theory

**Communication Pedagogy
63200† Seminar: Special Topics In Mass Comm
AT 53200 Operating Systems
CS 52700 Software Security
52800 Network Security
53600§ Data Communication and Computer Networks
56500 Programming Languages
59000† Independent Study/Varibale Topics
Communication Theory
60600 Advanced Information Assurance
63600 Internetworking
65500 Advanced Cryptology
66100 Consumer Behavior Theory
CSR 63100 Consumer Behavior Theory
ECE 56500 Computer Architecture
ECET 52500 Applications in Forensic Engineering Tech
ECON 60600 Microeconmic Theory I
EDPS 53300 Intro to Educational Research I: Methodology
EN 69500 Adv Topics in Engineering Education
53000 Quality Control
53200 Reliability

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<td>67400</td>
<td>Computer And Communication Methods For Production Control</td>
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<td>PHIL 52400*</td>
<td>Contemporary Ethical Theory</td>
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<td>53000</td>
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<td>58000†</td>
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<td>54000</td>
<td>Biometric Performance and Usability Analysis</td>
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<td>51200</td>
<td>Applied Regression Analysis</td>
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<td>51300</td>
<td>Statistical Quality Control</td>
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<td>54000</td>
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<td>51400</td>
<td>Design of Experiments</td>
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<td>54700</td>
<td>Computer Communication Systems</td>
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<td>51700</td>
<td>Statistical Inference</td>
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<td>Directed Readings In Management</td>
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<td>58100†</td>
<td>Workshop in Technology</td>
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<td>58000†</td>
<td>Computational Logic Course</td>
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<td>62100†</td>
<td>Seminar in Technology</td>
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### 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 Electrical and Computer 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
- **68900†** Seminar in Linguistics
- **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**
- **60000** Accounting for Managers
- **60100** Managerial Accounting
- **63000** Legal and Social Foundations of Management
- **68300** Principles Of Information Systems
- **OBHR 64200** Compensation And Reward Systems I
- **64300** Compensation And Reward Systems II
- **62200** Research Seminar In Public Policy And Public Administration
- **POL 66500** Research Seminar In Public Policy And Public Administration
- **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 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.

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