



Interdisciplinary Masters' Program in Information Security

School of Technology Requirements

Area A. Core Courses

- CS 52600 Information Security **or** C&IT 55500 Advanced Network Security
- CS 55500 Cryptography **or** ECE 62700 Intro to Cryptography & Secure Communication
- PHIL 52400 Contemporary Ethical Theory **or** PHIL 58000N† **or** TECH 62100 Information Assurance Ethics
- POL 62100 Proseminar in Science, Technology, and Politics
- SOC 51900—**or** equivalents; e.g. TECH 62100 Technology and Policy
- TECH 69800 (for the thesis option only; e.g. C&IT 69800 or IT 69800)

Area B. In-Depth Courses

One of the following courses:

- STAT 50200 Experimental Statistics II
- 51200 Applied Regression Analysis
- 51300 Statistical Quality Control

Any two of the following courses:

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| <ul style="list-style-type: none"> AGEC 59600F Forensic Economics I 60800 Benefit-Cost Analysis 68500 Advanced Quantitative Methods For Decision Making Under Uncertainty 69100K† Research in Agricultural Economics ASM 59100A Foundations in Homeland Security (CNIT 58100) 59100B Managing Resources and Applications for Homeland Security (CNIT 58100) 59100S Agro-Security Issues AT 57300 Foundations in Homeland Security 58100B Transportation Security Operations COM 55900 Current Trends In Mass Communication Research 59000R† Directed Study Of Special Problems CNIT 42100 Small Scale Digital Device Forensics 45500 Network Security 45600 Wireless Network Security & Management 49900C Cyberforensics: Advanced Technical Issues 52800 Information Security Risk Assessment 55600 Basic Computer Forensics 55700 Advanced Cyberforensics 55800 Bioinformatics Computing And Systems Integration 58100C Applied Cryptography 58100HLS Foundations in Homeland Security (ASM 59000) 58100 Managing Resources and Applications for Homeland Security (ASM 59000) 58100S Information Security Management 58100V Current Topics in Cyber Forensics 58100Z Programming for the Internet 62300R Risk and Technology CS 50300 Operating Systems 53600§ Data Communication and Computer Networks 56500 Programming Languages 58000 Algorithm Design, Analysis, and Implementation 59000W† Topics In Computer Sciences 62600 Advanced Information Assurance 63600 Internetworking 65500 Advanced Cryptology | <ul style="list-style-type: none"> CSR 63100 Consumer Behavior Theory ECE 56500 Computer Architecture 57200 Fault-Tolerant Computer Systems 57400 Software Engineering Methodology 63200 Mach Learn & Data Mining 66900 Natural Language Processing (LING 68900) ECET 52500 Applications in Forensic Engineering Technology ECON 60700 Microeconomic Theory I 61000 Game Theory IE 53000 Quality Control 53200 Reliability 54800 Knowledge-Based Systems 55900§ Cognitive Engineering Of Interactive Software 57700§ Human Factors in Engineering 65900 Human Aspects of Computing 67400 Computer And Communication Methods For Production Control IT 54500 Biometrics Technology And Applications LING 68900N Natural Language Process (ECE 66900) MGMT 54700§ Computer Communication Systems 59000 Forensic Accounting 68400 Information Security for Managers OBHR 68100 Behavior Organization 68300 Individual Behavior in Organizations PHIL 52400* Contemporary Ethical Theory 58000†* Proseminar in Philosophy 62400† Seminar in Ethics POL 56200€ Administrative Law And Policy Making 60700€ Public Policy Evaluation 62000 Proseminar Public Policy 62100 Proseminar In Science, Technology, And Politics 66000€ Research Seminar On Public Law And Judicial Behavior PSY 55500 Cognitive Engineering Of Interactive Software 57700§ Human Factors in Engineering 58500 Psychological Foundations of Consumer Behavior 62900 Motivation STAT 51400 Design of Experiments 51700 Statistical Inference |
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(Over)

Area C. Breadth Courses

(It is preferable to take these before the 4th semester and your thesis work):

IT 50700 Measurement and Evaluation in Industry and Technology

TECH 64600 Analysis Of Research In Industry And Technology

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

PSY 55500 or IE 55900

* unless taken under Area A

† When content is appropriate

€ not offered in recent years due to staff shortages.