

Interdisciplinary Information Science PhD Program Cybersecurity Concentration

About the Program

The University of North Texas Interdisciplinary Information Science PhD Program (or IIS PhD Program) responds to the varied and changing needs of the information age, therefore offering the Cybersecurity Concentration. The Cybersecurity Concentration is being offered jointly with UNT Department of Computer Science and Engineering, and UNT Department of Information Technology and Decision Sciences with the ultimate goal of providing interdisciplinary training, research, and professional services in cybersecurity. The concentration will prepare academics that are capable of conducting research on the critical issues in cybersecurity and related areas, and that are highly focused on information science perspective. They will fulfill the ever-increasing need for highly-trained researchers to assist the federal and state governments, the military, and the public sector in defending our information infrastructure and assets.

About Faculty

Please visit our website (<http://lis.unt.edu/faculty>; <http://www.cse.unt.edu/site/node/18>; <http://www.cob.unt.edu/itds/faculty.php>) to see the wide range of research interests of our faculty members along with their contact information.

Application Process

There are two steps to the application process for the Interdisciplinary Information Science PhD Program.

1. Apply to the University of North Texas Toulouse Graduate School: <http://tsgs.unt.edu/future-students/graduate-admissions>.
2. Apply to the Interdisciplinary Information Science PhD Program: https://lis.unt.edu/sites/default/files/IIS_PhD_Admission&Application_EFORM.pdf and indicate that you are applying for the Cybersecurity concentration. In addition to your application, the following materials must be submitted for evaluation:
 - a. Personal Statement (500 word minimum)
 - b. Curriculum Vita/ Resume
 - c. Formal Writing Sample (you must be the sole author of the document)
 - d. Three Letters of Recommendation
 - e. GRE Scores
 - f. Funding Source/ Sponsor Letter (if applicable)
3. Submit all application materials via
 - a. Email to CI-IISPhD@unt.edu (electronic submissions are encouraged)
 - b. Mail to:
IIS PhD Program Office: Admissions
University of North Texas
College of Information- Department of Library and information Sciences
1155 Union Circle #311068
Denton, Texas 76203-5017
 - c. Or Fax to (940) 369-7898

For More information regarding the admissions process, please visit: <https://lis.unt.edu/phd-admission-criteria>.

Please Note: We only allow students to start in the fall semester. You cannot apply to start in the spring or summer. Applications are due November 1st for admission in the fall of the following year. Admissions decisions are announced in January.

Admissions Criteria

As mandated by the State of Texas, all applications are evaluated under the rubric of "holistic review". This means that deficiency in one element of an application does not necessarily disqualify an applicant from being admitted to a program.

Funding

There is funding available through the Department of Library and Information Science in the forms of the Tuition Benefit Program, stipends and other opportunities (found here: <http://lis.unt.edu/financial-assistance>). Please contact us for details on how to apply for funding during the application process.

Course Requirements

Students enrolled in the Cybersecurity Concentration will take courses from four blocks of courses:

1. Information Science Core Area (12 graduate credit hours)

INFO 6945 Doctoral Seminar in Information Issues
INFO 6000 Seminar in Information Science
INFO 6700 Seminar in Communication and Use of Information
INFO 6660 Readings in Information Science

2. Research Courses (minimum of 24 graduate credit hours, including doctoral dissertation hours)

INFO 6940 Inquiry and Research Design
Quantitative Research Methods/ Statistics (6 graduate credit hours in consultation with advisor)
Qualitative Research Methods (3 graduate credit hours in consultation with advisor)
Doctoral Dissertation Hours (minimum of 12 credit hours of INFO 6950 to be completed after passing the qualifying examination)

3. Cybersecurity Concentration Core (12 graduate credit hours)

INFO 5307 Knowledge Management, Tools and Technologies
INFO 5707 Data Modeling for Information Professionals (or CSCE 5350 Database Systems I)
CSCE 5380 (or DSCI 5240) Data Mining
CSCE 5550 Introduction to Computer Security (or INFO 5737 Information and Cyber Security)

4. Cybersecurity Concentration Electives (a minimum of 12 graduate credit hours from the partial list below; other courses may be used upon departmental approval).

INFO 5960 Information Privacy

INFO 5810 Data Analysis and Knowledge Discovery
BCIS 5100 E-Commerce Systems Technologies
BCIS 5620 Networking and Telecommunications
BCIS 5630 Information Technology Security
BCIS 5650 Emerging Information Technologies
BCIS 5670 International Issues in Information Technologies
BCIS 5700 Strategic Use of Information Technology
BCIS 5740 Information Security Management
CSCE 5050 Introduction to Cryptography
CSCE 5560 Secure Electronic Commerce
CSCE 5933 Topics in Computer Science and Engineering: Design and Analysis of Trusted Secure Computer Platform
CJUS 5100 Information Warfare, Security, and Risk Analysis
CJUS 5120 Cybercrime and Digital Forensics
DSCI 5350 Big Data Analytics (or CMHT 6500 Big Data and Social Network Analysis)

Contact Us

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