

Cyber Security Research and Education Institute



INFORMATION ASSURANCE PROGRAMS

UNDERGRADUATES

Minor in Information Assurance

A minor in IA requires 30 credit hours earned through the following courses:

- CS 1337 Computer Science I
- CS 2305 Discrete Mathematics for Computing I
- CS 2336 Computer Science II
- CS 3305 Discrete Mathematics for Computing II
- CS 3345 Data Structures & Intro. to Algorithmic Analysis
- CS 4347 Database Systems
- CS 4348 Operating System Concepts
- CS 4389 Data and Applications Security
- CS 4393 Computer and Network Security
- CS 4398 Digital Forensics

Certificate in Information Assurance

Undergraduate Certificate in IA can be obtained by completing the following 9 credit hours (as well as any required prerequisites):

- CS 4389 Data and Applications Security
- CS 4393 Computer and Network Security
- CS 4398 Digital Forensics

Note: This certificate is intended for those individuals who are working in the industry and who already have background similar to BS-CS degree. CS and SE majors that complete the required classes, as well as students that complete the Minor in Information Assurance will be awarded certificates in Information Assurance.

GRADUATES

Concentration in Information Assurance

Core Courses (15 semester credits):

- CS 6363 Design & Analysis of Comp. Algorithms
- CS 6378 Advanced Operating Systems
- CS 6324 Information Security

Plus two of the following four courses:

- CS 6377 Introduction to Cryptography
- CS 6348 Data and Application Security
- CS 6349 Network Security
- CS 6301 System Security and Malicious Code Analysis

Note: Electives (minimum of 18 semester credits): 6000 or 7000 classes offered by Computer Science Department. Two electives should be among approved IA courses offered by the Computer Science Department. A course cannot be used to satisfy both core and elective requirements. Up to six credits can be earned by doing an MS thesis. The six hours of an MS thesis substitute for one IA elective and one CS elective. MS thesis should be in IA area. Up to three hours can be obtained via an Independent Study class.

Certificate in Information Assurance

Certificate will be granted by the UT Dallas CyberSecurity and Emergency Preparedness Institute to graduate students completing three IA core courses (9 credit hours) and two IA-enhanced courses (6 credit hours)

IA Core Courses	IA-enhanced Courses
<input type="checkbox"/> CS 6324 Information Security	<input type="checkbox"/> CS 6352 Performance of Computer Systems and Networks
<input type="checkbox"/> CS 6377 Introduction to Cryptography	<input type="checkbox"/> CS 6378 Advanced Operating Systems
<input type="checkbox"/> CS 6379 Data and Application Security	<input type="checkbox"/> CS 6V81-581 Data Mining and Multimedia
<input type="checkbox"/> CS 6387 Network Security	<input type="checkbox"/> CS 6368 Telecommunication Network Management
<input type="checkbox"/> CS 6v81 Biometrics	<input type="checkbox"/> CS 6370 Information Systems Engineering
<input type="checkbox"/> CS 7301 Language Based Security	<input type="checkbox"/> CS 6390 Advanced Computer Networks
<input type="checkbox"/> CS 7301 Advanced Cryptography for Data Security	<input type="checkbox"/> CS 6392 Mobile Computing Systems
<input type="checkbox"/> CS 7301 Data Privacy	<input type="checkbox"/> AIM 6349 Information Technology Strategy and Control
<input type="checkbox"/> CS 7301 Building Trustworthy Semantic Webs	<input type="checkbox"/> EE 6345 Engineering of Packet-Switched Networks
<input type="checkbox"/> CS 7301 Advanced Digital Forensics	<input type="checkbox"/> MAS 6V10 Information Technology Security and Audit

Note: This graduate certificate is intended for students who enroll in one of the UT Dallas ECS masters degree programs only.

Contact

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