

## Current:

### Information Security Minor and Certificate

Information technology security is an essential element in social, political and economic arenas. The minor is available to all undergraduate degree-seeking students and may be earned upon successful completion of the coursework below and the simultaneous completion of a bachelor's degree at FAU. For non-Business majors, waiver of prerequisites will be made on a case-by-case basis. For Business majors, a maximum of 3 credits used for the minor may count toward other Business major requirements. A minimum of two courses (6 credits) must be exclusive to the minor. For exceptions, a petition should be submitted to the ITOM Department chair.

The certificate is available to degree-seeking students, non-degree students and working professionals. Students pursuing the certificate may apply for it in the College of Business Office of Student Academic Services upon successful completion of the coursework below.

Students cannot obtain both a certificate and a minor. Both programs require 12 credits each, with minimum grades of "C" required in all courses for the minor and certificate. For the minor, at least 9 of the 12 credits must be earned from FAU.

Required Courses (12 credits)		
Business Data Communications	ISM 4220	3
Information System Security	ISM 4320	3
Management of Information Assurance and Security	ISM 4323*	3
Computer Forensics	ISM 4324*	3

\* Computer Crime (CJE 4668) or Special Topics (CCJ 4934) with an emphasis on corporate security may be substituted for either of these courses.

## Change to:

### Cybersecurity Minor and Certificate

#### Introduction and Rationale:

Cybersecurity is the study of methods to ensure information and system security. Industry and government need an educated workforce to serve as information and system security analysts, security and network administrators, and more. Due to their extensive expertise and facilities, the departments of Information Technology and Operations Management (in the College of Business), Computer and Electrical Engineering and Computer Science (in the College of Engineering and Computer Science), and Mathematical Sciences (in the College of Science) have jointly designed the Cybersecurity Minor and Certificate. These 12-credit programs have three tracks: Information Technology (IT), Computer Science (CS), and Mathematical Sciences (MS).

#### Tracks

IT Cybersecurity Track: The 12 credits should be completed as follows: one IT core course, two 3-credit courses from the IT elective list and one 3-credit course from either the CS elective course list, from the MS elective course list, or from the IT elective course list. A maximum of 3 credits used for the minor may count toward other major requirements. A minimum of two courses (6 credits) must be exclusive to the minor.

CS Cybersecurity Track: The 12 credits should be completed as follows: one CS core course, two 3-credit courses from the CS elective list and one 3-credit course from either the IT elective course list, from the MS elective course list, or from the CS elective course list.

MS Cybersecurity Track: The 12 credits should be completed as follows: one MS core course, two 3-credit courses from the MS elective list and one 3-credit course from either the IT elective course list, from the CS elective course list, or from the MS elective course list.

#### Admission

Open to students who satisfy the prerequisites required for each course in the program with the grade C or better. Each program requires 12 credits, with minimum grades of "C" required in all courses. Students cannot obtain both a certificate and a minor. All course materials are in English. All international students must demonstrate proficiency in English to enter the program.

The minor is available to all undergraduate degree-seeking students and may be earned upon successful completion of the coursework below and the simultaneous completion of a bachelor's degree at FAU. At least 9 of the 12 credits must be earned from FAU.

The certificate is available to degree-seeking students, non-degree students, and working professionals. Students pursuing the certificate may apply for it in the respective college depending on the track upon successful completion of the coursework below.

### Cybersecurity Courses by Track

<b>IT Cybersecurity Track</b>		
IT core course (required):		
ISM 4220	Business Data Communications	3
IT elective courses: select two from the following courses and one more from this list or the list of CS or MS elective courses.		
ISM 4320	Introduction to Cybersecurity (in approval for title change)	3
ISM 4323	Management of Information Assurance and Security	3
ISM 4324	Computer Forensics	3

<b>CS Cybersecurity Track</b>		
CS core course (required):		
CNT 4403	Foundations of Cybersecurity (title change)	3
CS elective courses: select two from the following courses and one more from this list or the list of IT or MS elective courses.		
CIS 4214	Cyber-physical Systems Security (new)	3
COP 4623	Trustworthy AI (new)	3
CNT 4411	Data and Network Security (new)	3
CDA 4321	Introduction to Cryptographic Engineering (New)	3
CIS 4367	Operating Systems Security (new)	3

<b>MS Cybersecurity Track</b>		
MS core course (required):		
CIS 4362	Cryptography and Information Security	3
MS elective courses: select two from the following courses and one more from this list or the list of IT or CS elective courses.		
MAD 4605	Introduction to Coding Theory	3
MAP 4190	Mathematics of Cybersecurity (New)	3
MAS 4218	Mathematics for Cryptography (New)	3
CAP 3786	RI: Introduction to Data Science	3