Cybersecurity Minor or Certificate (CSIT)

Cybersecurity is the study of methods to ensure information and system security. Industry and government need an educated workforce to serve as information and systems security analysts, security and network administrators and more. Due 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. Three tracks, each requiring 12 credits, constitute the minor and certificate: Information Technology (IT), Computer Science (CS) and Mathematical Sciences (MS).

The following information pertains only to the IT track. Students interested in one of the other tracks should speak to an advisor in that college.

Information Technology (IT) Track Required Courses: 12 credits (Minimum Grade "C")
Students must take ISM4220 along with either all three IT electives or two IT electives and one elective from one of the other tracks.

Course Title	Prefix & Number	Pre-requisites* (Minimum Grade "C")
Business Data Communications	ISM4220	ISM2000
Information Technology Electives		
Choose at least **TWO** of the following:	Choose at least **TWO**:	
Introduction to Cybersecurity	ISM4320	
Mgmt. of Info. Assurance and Security	ISM4323	
Computer Forensics	ISM4324	60 credits
Other Cybersecurity Track Electives		
Choose up to **ONE** of the following:	Choose up to **ONE**:	
Trustworthy Artificial Intelligence	CAP4623	Consult C. of Eng. & Comp. Sci. advising
Introduction to Cryptographic Engineering	CDA4321	Consult C. of Eng. & Comp. Sci. advising
Cyber Physical Systems Security	CIS4213	Consult C. of Eng. & Comp. Sci. advising
Operating Systems Security	CIS4367	Consult C. of Eng. & Comp. Sci. advising
Network and Data Security	CNT4411	Consult C. of Eng. & Comp. Sci. advising
RI: Introduction to Data Science	CAP3786	Consult C. of Science advising
Introduction to Coding Theory	MAD4605	Consult C. of Science advising
Mathematics of Cybersecurity	MAP4190	Consult C. of Science advising
Mathematics for Cryptography	MAS4206	Consult C. of Science advising

*Some business courses may require students to be declared in their major or to receive authorization from an advisor if not a business major. For information about courses in other colleges, consult an advisor in that college.

Pre-requisite: 3 credits (Minimum Grade "C")
Most students will need to complete the following pre-requisite to complete the minor or certificate. For non-business majors, a waiver of pre-requisites will be considered on a case-by-case basis via a College of Business Form 1 petition.

Course Title	Prefix & Number	Pre-requisites (Minimum Grade of "C")
Information Systems Fundamentals	ISM2000	

Additional Requirements
The **minor is open to all degree-seeking students** and allowed upon successful completion of the course work above and the simultaneous successful completion of a bachelor's degree. 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. A minimum of 9 credits for the minor must be taken at FAU.

The **certificate is open to all students.** College of Business certificates require 100% residency: all courses must be taken at FAU. All students must complete an application for certificate at the end of their second-to-last term at FAU in order for the certificate to be awarded. **Non-degree-seeking students** can download the application for certificate and e-mail the completed form to COBAdvising@fau.edu. **Degree-seeking students** must complete their application for certificate with an academic advisor during their application for degree preapproval meeting. For degree-seeking students, if all certificate courses were completed with or before the degree, then a certificate cannot be processed once the degree is awarded.

Timely Graduation
Minors and certificates should be considered an optional direction for elective credits. Students may not add a minor or certificate without permission from a COB advisor (and main college advisor if different). Students are generally not permitted to add a minor/cert after earning 90 credit hours or if completing it will result in an Excess Hour Surcharge.

Maximum Course Attempts
FAU counts a "course attempt" as any time a student is enrolled in a course (at any institution) and earns either a grade or a "W". FAU COB students may not attempt any course more than twice; **third attempts are not permitted.**