



UNICARIBE
UNIVERSIDAD DEL CARIBE

Engineering in:
Cybersecurity



Cybersecurity Engineering

FIRST FOUR-MONTH PERIOD

KEY	NAME	CR	PRE-REQ.
FGC-101	INSTITUTIONAL ACADEMIC ORIENTATION	2	-
FGC-102	ACADEMIC WORK METHOD	2	-
FGC-103	RESEARCH METHODOLOGY	3	-
ADE-101	ADMINISTRATION I	3	-

SECOND SEMESTER

KEY	NAME	CR	PRE-REQ.
FGC-104	SPANISH LANGUAGE I	3	FGC-102
FGC-105	BASIC MATHEMATICS I	3	FGC-102
FGC-106	INFORMATION AND COMMUNICATION TECHNOLOGY I	3	FGC-102
ING-101	INTRODUCTION TO ENGINEERING	3	-

THIRD SEMESTER

KEY	NAME	CR	PRE-REQ.
FGC-107	DOMINICAN SOCIAL HISTORY	3	FGC-102
FGC-108	ENGLISH I	3	FGC-102
DMF-209	PHYSICS I	4	FGC-105
QUI-400	CHEMISTRY I	3	FGC-105
MTI-200	MATHEMATICS II	4	FGC-105

FOURTH SEMESTER

KEY	NAME	CR	PRE-REQ.
FGC-109	PHILOSOPHY	2	FGC-102
FGC-110	SUSTAINABLE DEVELOPMENT AND RISK MANAGEMENT	2	FGC-102
MTI-300	MATHEMATICS III	4	MTI-200
DMF-210	PHYSICS II	4	DMF-209

FIFTH SEMESTER

KEY	NAME	CR	PRE-REQ.
MAT-241	STATISTICS I	3	FGC-105
ING-102	MATERIALS SCIENCE AND ENGINEERING	4	QUI-400
ING-103	INTEGRAL CALCULUS	4	MTI-300
INF-215	ECONOMIC ENGINEERING	3	MTI-200

SIXTH SEMESTER

KEY	NAME	CR	PRE-REQ.
MAT-242	STATISTICS II	3	MAT-241
ING-105	HARDWARE MECHANICS WORKSHOP	3	FGC-106
ING-104	VECTOR CALCULUS	4	ING-103
INF-222	OPERATING SYSTEM I	3	FGC-106
INF-221	INTRODUCTION TO PROGRAMMING	3	FGC-106

SEVENTH QUARTER

KEY	NAME	CR	PRE-REQ.
TIC-408	INFORMATION SECURITY	3	FGC-106
ISW-301	PROGRAMMING WORKSHOP I	5	INF-221
INF-437	COMPUTER NETWORKS	3	INF-222
ISW-321	DATABASE WORKSHOP I	4	INF-221

EIGHTH SEMESTER

KEY	NAME	CR	PRE-REQ.
INR-215	NETWORKING WORKSHOP I	4	INF-437
ICT-402	ETHICS IN TECHNOLOGY	2	FGC-110
INC-404	ELECTIVE I	3	7MO. QUAT.
INC-222	CYBERCRIMES, CYBERTERRORISM, CYBERWARFARE	3	ICT-408

NINTH SEMESTER

KEY	NAME	CR	PRE-REQ.
INC-231	CRYPTOGRAPHY AND CRYPTANALYSIS	3	TIC-408
INC-315	NETWORK AND TELECOMMUNICATIONS SECURITY WORKSHOP	4	INR-215
INC-325	OPERATING SYSTEMS AND SOFTWARE SECURITY WORKSHOP	4	INF-222
INC-331	INFORMATION SECURITY MANAGEMENT SYSTEM	3	ICT-408
INC-332	DATABASE SECURITY WORKSHOP	4	ISW-321

TENTH SEMESTER

KEY	NAME	CR	PRE-REQ.
INC-411	INFORMATION SECURITY RISK MANAGEMENT	3	INC-331
INC-333	PHYSICAL, VIRTUAL AND CLOUD INFRASTRUCTURE SECURITY WORKSHOP	4	INC-315
INC-405	ELECTIVE II	3	9NO. QUAT.
INC-401	CYBERSECURITY PROJECT - I	5	INC-331
INC-403	INTERNSHIP - CYBERSECURITY PRACTICUM	8	INC-411

ELEVENTH QUARTER

KEY	NAME	CR	PRE-REQ.
INC-412	LEGAL FRAMEWORK FOR INFORMATION SECURITY	3	INC-331
INC-413	MOBILE DEVICE SECURITY WORKSHOP	4	INC-325
INC-402	CYBERSECURITY PROJECT - II	5	INC-401
INC-334	SOCIAL ENGINEERING	3	INC-222
FGC-111	UNDERGRADUATE SEMINAR	3	FGC-103

TWELFTH QUARTER

KEY	NAME	CR	PRE-REQ.
INC-414	IoT SECURITY WORKSHOP AND INDUSTRIAL ENVIRONMENTS	4	INC-333
INC-421	FORENSIC ANALYSIS IN CYBERSECURITY	4	INC-412
INC-422	INFORMATION SECURITY AUDIT WORKSHOP	4	INC-331
INC-600	CYBERSECURITY INTEGRATOR PROJECT: DEGREE WORK	6	ALL

TOTAL SUBJECTS	53
GRAND TOTAL OF CREDITS	185



Cybersecurity Engineering provides students with the possibility of acquiring special knowledge and skills that allow them to design and implement security measures to prevent theft, loss, damage and alteration of information. Its role in modern organizations is widely recognized, indispensable and essential.

This training is based on a practical approach, combined with the most advanced technological trends in information protection. It allows access to jobs in many industries, so that the graduate will be able to occupy positions of network security administrator, security architect, security consultant and risk analyst, information security specialist, senior security and ethical hacking consultants, computer security expert, among others.

ADMISSION REQUIREMENTS

- Admission Application Form duly completed.
- Official High School Certificate, original issued by the Ministry of Education.
- Original High School transcript.
- Birth Certificate certified and in original.
- Medical certificate.
- Copy of identity card and voter's card.
- 2 X 2 photos.
- Application for the Academic Orientation and Measurement Test (POMA).
- For students transferring from another institution, they must also present the transcript of grades from the institution of origin duly legalized by the Ministry of Higher Education, Science and Technology (MESCyT).