Atlantis University

PROGRAM BREAKDOWN

BACHELOR IN
COMPUTER ENGINEERING

CONCENTRATION IN CYBER INTELLIGENCE
LOWER DIVISION GENERAL EDUCATION COURSES
GENERAL EDUCATION COURSES (15.0 CREDITS REQUIRED)

COURSE NUMBER	COURSE NAME	CREDIT HOURS
ORAL COMMUNICATIONS		
ENGL 100	Language and Speech Communications	3.0 credit hours
ENGL 115	Fundamentals of Public Speaking	3.0 credit hours
SPC 200	Speech and Public Speaking	3.0 credit hours
HUMANITIES		
PHIL 102	Legal and Ethical Issues	3.0 credit hours
PHIL 200	Introduction to Philosophy	3.0 credit hours
MATHEMATICS		
MATH 102	College Algebra	3.0 credit hours
ENGLISH		
ENGL 200	English Composition I	3.0 credit hours
BEHAVIORAL SCIENCE / SOCIAL ENVIRONMENT		
PSY 201	Psychology	3.0 credit hours
SOC 210	Sociology	3.0 credit hours

UPPER DIVISION GENERAL EDUCATION COURSES
UPPER DIVISION GENERAL EDUCATION COURSES (15.0 CREDITS REQUIRED)

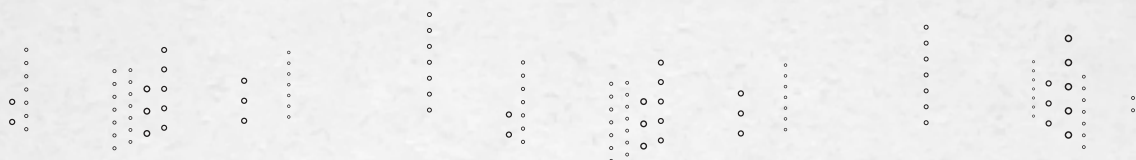| COURSE NUMBER	COURSE NAME	CREDIT HOURS
ENGLISH		
ENGL 302	English Composition II	3.0 credit hours
FOREIGN LANGUAGE		
SPN 310	Conversational Spanish	3.0 credit hours
NATURAL SCIENCE		
BSC 310	General Biology	3.0 credit hours
ECONOMICS		
ECON 302	Principles of Economics (Microeconomics)	3.0 credit hours
ECON 303	Macroeconomics	3.0 credit hours

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LOWER DIVISION MAJOR COURSES
LOWER DIVISION MAJOR COURSES (45 CREDITS REQUIRED)

COURSE NUMBER	COURSE NAME	CREDIT HOURS
CIT 102	Introduction to Computer Programming	3.0 credit hours
CIT 105	Programming Practice	3.0 credit hours
CIT 110	Computer Operating Systems	3.0 credit hours
CIT 280	Network Design	3.0 credit hours
CIT 281	Network Administration & Technical Support	3.0 credit hours
CIT 282	Advanced Network Administration	3.0 credit hours
CIT 283	Networking on Azure and AWS	3.0 credit hours
CIT 381	Linux Technology	3.0 credit hours
CIT 382	Cloud Technology Developer	3.0 credit hours
CIT 383	Advanced Cloud Technology Architect	3.0 credit hours
CIT 384	Manage Cloud Technology Identities & Requirements	3.0 credit hours
CIT 385	Cloud Technology Compute Services	3.0 credit hours
EGN 101	Introduction to Computer Engineering	3.0 credit hours
EGN 201	Engineering Drawing	3.0 credit hours
PHY 101	Introduction to Physics	3.0 credit hours

UPPER DIVISION MAJOR COURSES
UPPER DIVISION MAJOR COURSES (30 CREDITS REQUIRED)

CIT 480	Security Technology	3.0 credit hours
CIT 481	Security Ethical Hacking	3.0 credit hours
CIT 482	Security Analyst	3.0 credit hours
CIT 483	Information Systems Security	3.0 credit hours
CIT 484	Advanced Information Systems Security	3.0 credit hours
EGN 310	Data Structures	3.0 credit hours
EGN 321	Engineering Software Technology	3.0 credit hours
EGN 325	Computer Architecture	3.0 credit hours
EGN 410	Product Design	3.0 credit hours
PHY 440	Solid State Physics	3.0 credit hours

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MAJOR CONCENTRATION COURSES
CERTIFICATIONS CLOUD COMPUTING(18 CREDITS REQUIRED)
CERTIFICATIONS CYBER-INTELLIGENCE (18 CREDITS REQUIRED)

TECHNICAL AND SPECIALIST MAJOR COURSES

This certification specializes participants to perform on the ethical side of technology and the development of procedures to respond to cyber-attacks, will move away in theory of information security, ready to identify any vulnerability in information systems and capable of protect and defend those same systems.

COURSE NUMBER	COURSE NAME	CREDIT HOURS
CSIA 420	Reverse Engineering	3.0 credit hours
CSIA 430	Programming in Security	3.0 credit hours
CSIA 440	Cyber-intelligence	3.0 credit hours
CSIA 450	Espionage in Business and IT	3.0 credit hours
CSIA 460	Virtualization	3.0 credit hours
CSIA 470	Hacking Countermeasures and Techniques	3.0 credit hours