



American
Open University
Nigeria



Undergraduate Program

College of Technology

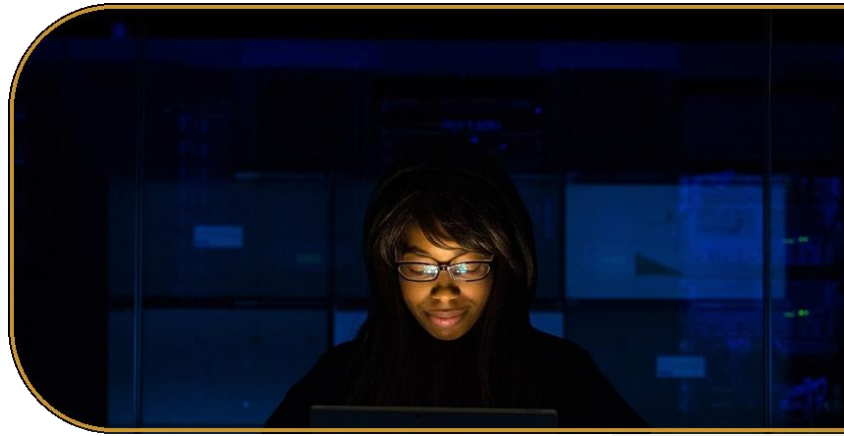
Bachelor of Science in Cybersecurity

Defending the digital infrastructure: find the vulnerabilities, detect the threats, design the secure systems, and trace an attack to its source.



Defend the Digital World

Educating the defenders of the digital infrastructure everyone relies on.



“

If you know the enemy and know yourself, you need not fear the result of a hundred battles.

Sun Tzu The Art of War, Lionel Giles translation, 1910

The Bachelor of Science in Cybersecurity is a highly technical and defensive-focused program designed to produce experts in protecting digital infrastructures. Students learn to identify vulnerabilities, detect and respond to threats, and design secure systems to defend against the ever-evolving landscape of cyber-attacks. Students will engage in advanced projects in areas like ethical hacking, network defense, and digital forensics.

Specialization focus



Ethical Hacking



Network Defense



Digital Forensics



Secure Systems Design

- Undergraduate program of the College of Technology, American Open University Nigeria (A-Global).



Program at a Glance

Four years. One degree. A specialization built for the people who protect digital infrastructure.



Duration



Credential



Delivery



Specialization

Your journey through the program



100 Level
22 units

Sciences and computing foundations



200 Level
22 units

Programming, cybercrime law, and SIWES I



300 Level
21 units

Cryptography, forensics, and SIWES II



400 Level
20 units

Threat intelligence, ethical hacking, and Final Year Project I and II

+ 60

credit units of A-Global electives run alongside the core: 20 applied courses, 3 units each, delivered in 8-week blocks.

Program objectives

The Bachelor of Science in Cybersecurity aims to:



Instill a deep understanding of network security, cryptography, and secure system design.



Develop practical, hands-on skills in penetration testing, threat hunting, and incident response.



Provide a strong foundation in risk management and compliance with global security standards.



Foster an ethical mindset for the responsible defense of information and digital assets.



What You Will Learn

Students will build a comprehensive portfolio of skills, moving from foundational theory to specialized, real-world application.

Specialized
application

4



Digital Forensics and Incident Response

Develop the skills to investigate security breaches, collect and preserve digital evidence, and manage the response to a cyber attack.

3



Cybersecurity Engineering and Architecture

Understand the principles of secure system design, cryptography, network security architecture, and identity and access management.

2



Offensive Security and Penetration Testing

Learn the attacker mindset by mastering ethical hacking techniques, performing vulnerability assessments, and exploiting system weaknesses.

1



Defensive Security Operations

Master the techniques for monitoring networks, analyzing logs, and using Security Information and Event Management (SIEM) tools to detect threats.

Foundational
theory

Read the stack from the base up: defensive operations first, then the attacker's craft, then the engineering of secure architecture, and finally the forensics and response that take over when an incident happens.



Expected Program-Level Outcomes

Every A-Global program is designed through the EDGE Instructional Framework, so its outcomes are stated the way the framework thinks: what you learn, who you become, where you apply it, and how you lead.



The EDGE Framework

A learner-centric model that guides the design of every program we offer, emphasizing individual growth, empowerment, and career advancement.

E Educate (The What)

Students will understand the principles of information security, cyber defense techniques, and the attacker mindset.

D Develop (The Who)

Students will be able to use industry-standard tools to perform vulnerability assessments, analyze malware, and secure computer networks.

G Grow (The Where)

Students will learn to think critically under pressure, communicate technical risks to leadership, and develop comprehensive security strategies.

E Empower (The How)

Students will be prepared to take on leadership roles in security operations and protect organizations from significant financial and reputational damage.

Every A-Global graduate is designed to be

Future-Ready

Equipped to adapt to technological change and thrive in the 21st-century global economy.

Career-Focused

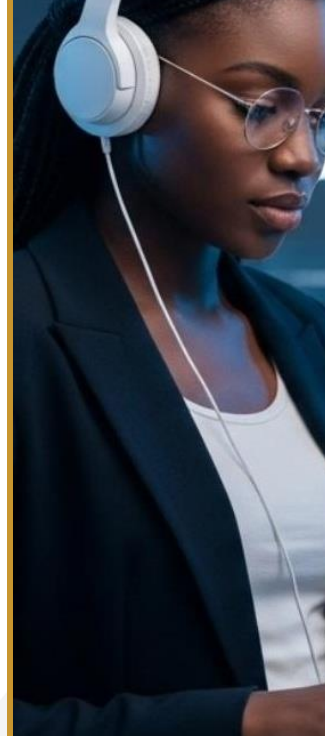
Prepared to apply their knowledge professionally and advance their careers with purpose and direction.

Skilled and Competent

Possessing the essential skills and professional competencies for effective performance and ethical leadership.

Empowered Changemakers

Ready to act as agents of positive change, equipped with the strategic tools and professional networks to lead and innovate.





Your Four-Year Pathway

The program pathway for the B.Sc. Cybersecurity moves from the sciences and computing foundations of 100 Level to the cryptography, forensics, threat intelligence, and applied projects of 400 Level. Every course below is part of the NUC-aligned core.

Credit units by level

100 Level		22
200 Level		22
300 Level		21
400 Level		20

Plus 60 units of A-Global electives (page 8)

100	100 Level	22 credit units	200	200 Level	22 credit units
	GST 111 Communication in English	2		ENT 211 Entrepreneurship and Innovation	2
	MTH 101 Elementary Mathematics I	2		COS 201 Computer Programming I	3
	PHY 101 General Physics I	2		CYB 201 Introduction to Cybersecurity and Strategy	2
	PHY 107 General Practical Physics I	1		CYB 203 Cybercrime, Law and Countermeasures	2
	STA 111 Descriptive Statistics	3		SEN 201 Introduction to Software Engineering	2
	COS 101 Introduction to Computing Sciences	3		GST 212 Philosophy, Logic and Human Existence	2
	GST 112 Nigerian Peoples and Culture	2		COS 202 Computer Programming II	3
	MTH 102 Elementary Mathematics II	2		INS 204 Systems Analysis and Design	3
	PHY 102 General Physics II	2		CYB 299 SIWES I	3
	PHY 108 General Practical Physics II	1			
	COS 102 Problem Solving	2			

● Work-integrated milestone (SIWES) 2 credit units



300 and 400 Level

Cryptography, forensics, threat intelligence, and your final-year project

300	300 Level	21 credit units	400	400 Level	20 credit units
	CYB 301 Cryptography Techniques, Algorithms and Applications	2		COS 409 Research Methodology and Technical Report Writing	2
	CYB 303 Cybersecurity Risks Analysis, Challenges and Mitigation	2		CYB 401 Systems Vulnerability Assessment and Testing	2
	CYB 305 Digital Forensics and Investigation Methods	2		CYB 403 Cyber Threat Intelligence and Cyber Conflict	2
	CSC 309 Artificial Intelligence	2		CYB 405 Ethical Hacking and Reverse Engineering	2
	GST 312 Peace and Conflict Resolution	2		CYB 497 Final Year Project I	3
	ENT 312 Venture Creation	2		CYB 402 Steganography: Access Methods and Data Hiding	2
	CYB 302 Biometrics Security	2		CYB 404 Cloud Computing Security	2
	CYB 304 Information and Big Data Security	2		CYB 406 Deep and Dark Web Security	2
	CYB 322 Cybersecurity Innovation and New Technologies	2		CYB 498 Final Year Project II	3
	CYB 399 SIWES II	3			

SIWES I and II

Two industrial work-experience placements (CYB 299 at 200 Level, CYB 399 at 300 Level) put you inside real organizations before you graduate.

Final Year Project I and II

CYB 497 and CYB 498 at 400 Level carry your learning into a substantial, portfolio-ready project.

“*Security is a process, not a product.*”

Bruce Schneier, Crypto-Gram, 2000



A-Global Electives

Twenty applied courses that put current tools in your hands: security operations, ethical hacking, cryptography, cloud security, and AI-driven defense. Each elective carries 3 credit units and runs for 8 weeks.

20 courses

3 units each

60 total units

8 weeks each



Academic Foundations

2

AGC 200 Foundations of Academic Writing

AGC 300 Information Technology Research Methods

Enterprise Systems

5

ATC 200 Information Systems Design Fundamentals

ATC 401 Enterprise Resource Planning

ATC 402 Modern Technology Integration

ATC 403 Enterprise Applications with Open-Source Technologies

ATC 404 IT Project Management

Security Operations and Defense

5

CYB 201 Introduction to Cybersecurity and Strategy

CYB 302 Network Security and Defense

ATC 410 Information Security and Assurance

CYB 303 Cybersecurity Risk Analysis, Challenges, and Mitigation

CYB 304 Cryptography and Secure Communications

Ethical Hacking and Applied AI

3

CYB 401 Ethical Hacking and Penetration Testing

CYB 405 AI-Driven Threat Detection and Defense

ATC 202 Foundations of AI Deployment (Claude AI)

Cloud and Google Career Certificates

3

ATC 405 Cloud Infrastructure and Databases

ATC 413 Google Career Cybersecurity I

ATC 414 Google Career Cybersecurity II

Capstone

2

CYB 497 Cybersecurity Capstone Project I

CYB 498 Cybersecurity Capstone Project II



How You Will Learn

Education should fit your life, not the other way around. Whether you prefer the immersive experience of our Global Campus, the convenience of a local City Center, or the flexibility of online study, A-Global meets you where you are.

The Hi-Flex learning model



Global Campus

The immersive on-campus experience in Ibadan.



City Center

The convenience of a local center close to home.



Online

The flexibility of study that fits around your life.

Three tiers of support, one team behind you



Course Instructor

Your primary support official for each course: delivers content, leads discussions, gives assignment feedback, and evaluates your performance.



Course Mentors

Credentialed, certified subject experts who add specialized guidance, answer in-depth questions, and facilitate peer-to-peer learning.



Industry Faculty and Coaches

Working professionals who connect your learning to real-world practice, job-readiness mindsets, networks, and potential internship placements.



Learner Support Team

Monitors your progress with meaningful weekly contact, in person or via phone, Teams, or Zoom, and escalates any concern for early intervention.

Where to find us



Global Campus, Ibadan

3 Oladosu Oladipo Close, Ashi Area, New Bodija, Ibadan, Oyo State



Metro Campus, Abeokuta

1 Muideen Agboke Street, Opposite Foodco Supermarket, Ita-Iyalode, Abeokuta, Ogun State



Ogbomoso Center

First Floor, Adekitan Building, Beside Ola Central Filling Station, High School Area, Ogbomoso, Oyo State



Ondo Town Center

1 Homaj Street, Itanla, Akure Road, Ondo Town, Ondo State

“ Humans are allergic to change. They love to say, ‘We’ve always done it this way.’ I try to fight that.

Grace Hopper, computer scientist and US Navy rear admiral, 1987



Who You Will Become

Defenders of the digital infrastructure: the analysts, ethical hackers, and architects who find weaknesses before attackers do.



Cybersecurity Analysts

who work in a Security Operations Center (SOC) to defend digital assets from active threats.



Penetration Testers (Ethical Hackers)

who are hired by organizations to find and fix security vulnerabilities before malicious actors do.



Security Architects

who design and build resilient, multi-layered defense systems for enterprise networks.



Digital Forensics Investigators

who respond to cybercrime incidents and trace the source of an attack.

Where you will work

Industries

Cybersecurity

Financial Services

Government

Defense

Technology

Consulting

Certifications

CompTIA Security+

Certified Ethical Hacker (CEH)

Cisco CyberOps Associate

GIAC Security Essentials (GSEC)

Career trajectory



“ If you think technology can solve your security problems, then you don’t understand the problems and you don’t understand the technology.

Bruce Schneier, *Secrets and Lies*, 2000



Your Path to Admission

Three entry routes, one destination. Choose the track that matches where you are starting from.



Start *Begin. Build. Become.*

Fresh secondary school graduates, JUPEB, IJMB, and A-Levels.



Accelerate *Start. Advance. Pivot.*

Direct Entry (NCE, ND, and NID) and university transfers. Graduate faster: finish in 24 to 36 months depending on experience and previously earned credits.



Advance *Reposition. Reskill. Reinvent.*

For HND holders, third-class graduates, and chartered professionals transitioning into tech-driven fields. Admission by Direct Entry with Credit Transfer and Recognition of Prior Learning (RPL).

Key facts

Duration
4 years

Credential
B.Sc. Degree

Delivery
Hybrid, Hi-Flex

College
College of Technology

Entry requirements

- Five O'Level credits including English Language and Mathematics.
 - Subject credits relevant to the chosen program.
 - UTME or Direct Entry qualification where applicable.
 - A working device and a reliable internet connection.
- Students transitioning to a new program must provide their degree credentials.

Tuition and fees

Regular tuition for the B.Sc. Cybersecurity program is ₦2,100,000 per academic session. Under the 2026/2027 Merit Scholarship, eligible students receive up to 70% off, reducing tuition to ₦630,000 (Start & Accelerate), ₦840,000 (Advance I), or ₦1,050,000 (Advance II) per session.



Ready to Build the Future?

Apply now and join a program designed for the next generation of cybersecurity leaders.

Apply now: www.aouniversity.edu.ng



Application QR code

An idea is a blueprint. Ambition is the engine. A degree is the launchpad.

A-Global

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Current students	support@aouniversity.edu.ng	Finance	financing@aouniversity.edu.ng

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Future Forward 