



American
Open University
Nigeria



Undergraduate Program

College of Technology

Bachelor of Science in Information Technology

Building the infrastructure of AI: systems, networks, cloud, and the pipelines that put intelligent models to work.



Powering Intelligence

Educating the builders of the infrastructure that runs AI.



“

The best way to predict the future is to invent it.

Alan Kay computer scientist, Xerox PARC, 1971

The Bachelor of Science in Information Technology prepares students to build, manage, and innovate the core technical infrastructure that powers modern organizations. The program focuses on systems, networking, and cloud infrastructure, with a deep, practical specialization in how to deploy and manage intelligent systems. Students learn to build and manage the cloud infrastructure, data pipelines, and systems required to deploy and scale machine learning models in real-world environments.

Specialization focus



AI/ML Deployment &
Cloud Infrastructure



MLOps & DevOps



Enterprise Systems
Architecture



AWS & Azure Cloud
Platforms

● 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 systems that run intelligent organizations.



Duration



Credential



Delivery



Specialization

Your journey through the program



100 Level
22 units

Sciences and computing foundations



200 Level
23 units

Programming, web, and SIWES I



300 Level
25 units

Networks, systems, and SIWES II



400 Level
16 units

Architecture 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 Information Technology aims to:



Build expertise in managing enterprise IT systems, including networks, servers, and cloud platforms.



Develop the technical skills required to deploy, monitor, and maintain AI and machine learning applications.



Provide a strong foundation in IT service management and infrastructure automation.



Prepare graduates to be the technical architects of intelligent systems.



What You Will Learn

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

Specialized
application

4



IT Strategy and Service Management

Understand how to manage complex technology projects, align IT infrastructure with business goals, and implement IT service management (ITSM) best practices.

3



AI/ML Deployment and Operations (MLOps)

Learn the specific tools and practices for deploying, monitoring, and managing machine learning models in production environments.

2



Cloud Architecture and Automation

Master the principles of designing scalable, secure, and resilient cloud infrastructure, and learn to automate operations using Infrastructure as Code (IaC).

1



IT Infrastructure and Systems

Gain proficiency in computer networking, cloud computing (AWS, Azure), database management, and operating systems (Linux, Windows Server).

Foundational
theory

Read the stack from the base up: infrastructure first, then the cloud that scales it, then the operations that keep intelligent systems running, and finally the strategy that aligns it all with the business.



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 IT infrastructure, cloud computing, and the lifecycle of machine learning models.

D Develop (The Who)

Students will develop the ability to manage secure and scalable IT systems and deploy AI applications on cloud platforms like AWS or Azure.

G Grow (The Where)

Students will learn to automate IT operations (DevOps/MLOps) and manage the unique infrastructure demands of AI workloads.

E Empower (The How)

Students will be empowered to take on the technical implementation of AI strategies, ensuring systems are reliable, scalable, and efficient.

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

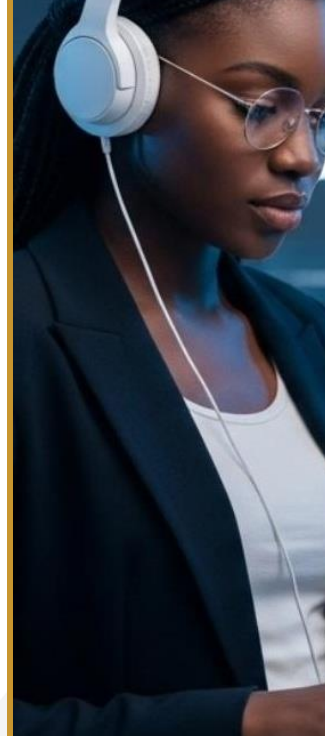
Prepared to apply their knowledge professionally and advance their careers with purpose and direction.

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. Information Technology moves from the sciences and computing foundations of 100 Level to the systems, networks, 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		23
300 Level		25
400 Level		16

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

100	100 Level	22 credit units	200	200 Level	23 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		IFT 203 Introduction to Web Technologies	2
	PHY 107 General Practical Physics I	1		IFT 205 Introduction to Information Technology	2
	STA 111 Descriptive Statistics	3		IFT 211 Digital Logic Design	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		IFT 212 Computer Architecture and Organization	2
	PHY 102 General Physics II	2		INS 202 Human-Computer Interface	2
	PHY 108 General Practical Physics II	1		IFT 299 SIWES I	3
	COS 102 Problem Solving	2			

● Work-integrated milestone (SIWES) 2 credit units

300 and 400 Level

Systems, networks, and your final-year project

300

300 Level

25 credit units

400

400 Level

16 credit units

ICT 305

Data Communications Systems and Network

3

GST 312

Peace and Conflict Resolution

2

ENT 312

Venture Creation

2

IFT 302

Web Application Development

2

IFT 304

Web Development using Content Management Systems

2

IFT 308

Ethics and Legal Issues in IT

2

IFT 310

Mobile Application Development

2

IFT 322

IT Innovation and Entrepreneurship

2

IFT 342

Network Servers and Infrastructures

2

CSC 308

Operating Systems

3

IFT 399

SIWES II

3

COS 409

Research Methodology and Technical Report Writing

2

IFT 403

Mobile and Pervasive Computing

2

IFT 497

Final Year Student's Project I

3

INS 401

Project Management

2

IFT 410

System Integration and Architecture

2

IFT 442

Wireless Communications and Networking

2

IFT 498

Final Year Student's Project II

3

SIWES I and II

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

Final Year Project I and II

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

“*The network is the computer.*”

John Gage, Sun Microsystems, 1984



A-Global Electives

Twenty applied courses that put current tools in your hands: cloud, data, automation, AI deployment, and security. 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

Cloud, Data and Automation

6

ATC 405 Cloud Infrastructure and Databases

ATC 406 Data Management: Microsoft Dataverse

ATC 407 IT Automation with Python I

ATC 408 IT Automation with Python II

DTS 201 Introduction to Data Science

ATC 421 Data Analytics and Business Intelligence (Google)

Applied AI

2

ATC 202 Foundations of AI Deployment (Claude AI)

ATC 424 AI Agents Development

Cybersecurity

3

CYB 201 Introduction to Cybersecurity and Strategy

CYB 303 Cybersecurity Risk Analysis, Challenges, and Mitigation

ATC 410 Information Security and Assurance

Capstone

2

IFT 497 IT Capstone Project I

IFT 498 IT 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

Architects of the digital world: the engineers who make intelligent systems reliable at scale.



AI/ML Engineers

who specialize in the operational side of AI, building the infrastructure to run intelligent systems.



Cloud AI Specialists

who architect and manage scalable solutions for AI workloads on platforms like AWS, Azure, or Google Cloud.



DevOps/MLOps Engineers

who build the automated pipelines for continuous integration, delivery, and deployment of software and machine learning models.



IT Infrastructure Architects

who design the next generation of intelligent, cloud-based enterprise systems.

Where you will work

Industries

Cloud Computing

Artificial Intelligence

Enterprise IT

Technology Consulting

Certifications



AWS Certified Solutions Architect



Microsoft Certified: Azure AI Engineer Associate



CompTIA Cloud+



HashiCorp Certified: Terraform Associate

Career trajectory



“Simplicity is prerequisite for reliability.”

Edsger W. Dijkstra, EWD498, 1975



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. Software Engineering 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 AI infrastructure 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

Address

American Open University Global
Campus
3 Oladosu Oladipo Close, Ashi Area,
New Bodija, Ibadan, Nigeria.

Telephone

+234 807 840 5282
+234 812 204 4014
Call: 0700 700 3888

Website

www.aouniversity.edu.ng

Emails

General inquiries	info@aouniversity.edu.ng	New students	admissions@aouniversity.edu.ng
Current students	support@aouniversity.edu.ng	Finance	financing@aouniversity.edu.ng

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Future Forward 