

Study Plan for Bachelor's Degree in Computer Science

Introduction

I am Sadiq Salisu Inuwa, an aspiring student aiming to pursue a Bachelor's Degree in Computer Science, commencing in September 2025. My objective is to gain a robust and comprehensive education in computer science, which will equip me with the necessary skills and knowledge to make significant contributions to my home country, Nigeria, after graduation.

Background

Born and raised in Kano State, Nigeria, I graduated from Queen Amina College with an excellent academic record and a strong interest in technology and problem-solving. Afterward, I pursued a Higher Diploma in Computer Science at the Imperial College of Advanced Studies, which further honed my technical skills and deepened my passion for computing. My educational journey has provided me with a solid foundation in programming, software development, and computer systems, motivating me to pursue higher education in this dynamic and ever-evolving field.

Why Study in China?

China has established itself as a global leader in technology and innovation, making it an ideal destination for studying Computer Science. The country's rapid advancements in artificial intelligence, big data, and software development offer a dynamic environment for learning and experiencing cutting-edge technologies firsthand. Additionally, China's cultural diversity and rich history provide a unique perspective on global technological trends and practices. Studying in China will give me the opportunity to interact with top professionals in the field, participate in groundbreaking research, and gain valuable insights into the global tech industry.

Detailed Study Plan

First Year (2025-2026)

Semester 1 (September 2025 - January 2026)

- **Introduction to Computer Science:** Understand the fundamental concepts and principles of computer science.
- **Programming Fundamentals:** Learn the basics of programming using languages like Python or Java.
- **Discrete Mathematics:** Develop mathematical skills relevant to computer science and problem-solving.
- **Computer Systems and Architecture:** Study the basic components and functioning of computer systems.
- **Academic English Writing:** Enhance academic writing skills, particularly in the context of computer science.
- **Chinese Language and Culture I:** Begin learning the Chinese language and gain an understanding of Chinese culture.

Semester 2 (February 2026 - June 2026)

- **Data Structures and Algorithms:** Learn about the organization and manipulation of data efficiently.
- **Object-Oriented Programming:** Understand the principles of object-oriented design and development.
- **Calculus for Computer Science:** Study mathematical concepts essential for advanced computing.
- **Digital Logic Design:** Explore the design and functioning of digital circuits.
- **Chinese Language and Culture II:** Continue developing language skills and deepen cultural understanding.

Second Year (2026-2027)

Semester 3 (September 2026 - January 2027)

- **Database Systems:** Learn about the design, implementation, and management of databases.
- **Operating Systems:** Understand the principles and functioning of operating systems.
- **Software Engineering:** Study the methodologies and practices of software development.
- **Computer Networks:** Explore the fundamentals of networking and data communication.
- **Intermediate Chinese Language I:** Advance language proficiency and cultural understanding.

Semester 4 (February 2027 - June 2027)

- **Web Development:** Learn about designing and developing web applications.
- **Theory of Computation:** Study the mathematical foundations of computing.
- **Human-Computer Interaction:** Understand the design and usability of computer systems.
- **Probability and Statistics for Computer Science:** Apply statistical methods to analyze data.
- **Intermediate Chinese Language II:** Further enhance language skills and cultural knowledge.

Third Year (2027-2028)

Semester 5 (September 2027 - January 2028)

- **Artificial Intelligence:** Explore the principles and applications of AI.
- **Machine Learning:** Learn about algorithms and models for data analysis and prediction.
- **Elective 1: Cybersecurity:** Understand the principles and practices of securing computer systems.
- **Elective 2: Cloud Computing:** Study the concepts and technologies behind cloud-based systems.
- **Chinese Business Culture and Practices:** Gain insights into business practices in China.

Semester 6 (February 2028 - June 2028)

- **Data Science:** Develop skills in analyzing and interpreting complex data.
- **Mobile Application Development:** Learn about designing and developing mobile apps.
- **Elective 3: Big Data Analytics:** Understand the tools and techniques for processing large datasets.
- **Elective 4: Internet of Things (IoT):** Explore the technologies and applications of IoT.
- **Internship/Practical Training:** Gain practical experience in a computer science-related setting.

Fourth Year (2028-2029)

Semester 7 (September 2028 - January 2029)

- **Advanced Algorithms:** Study complex algorithms and their applications.
- **Elective 5: Blockchain Technology:** Learn about the principles and applications of blockchain.
- **Elective 6: Game Development:** Understand the design and development of video games.
- **Capstone Project I (Research Proposal and Literature Review):** Develop a research proposal and conduct a literature review.
- **Seminar on Current Issues in Computer Science:** Participate in discussions on current trends and issues in technology.

Semester 8 (February 2029 - June 2029)

- **Distributed Systems:** Study the design and functioning of distributed computing systems.
- **Elective 7: Natural Language Processing:** Explore the interaction between computers and human language.
- **Elective 8: Robotics:** Learn about the design and programming of robots.
- **Capstone Project II (Research Findings and Presentation):** Present research findings and conclusions.
- **Comprehensive Exam Preparation:** Prepare for the final comprehensive exams.

Conclusion

Studying in China will provide me with a world-class education in Computer Science, equipping me with the skills and knowledge necessary to excel in the tech industry. I am enthusiastic about the opportunity to learn from esteemed faculty and gain valuable experience in China's dynamic technological environment. I look forward to contributing to and benefiting from the vibrant academic community.

Thank you for considering my application.

Sincerely,

Sadiq Salisu Inuwa