INFORMATION TECHNOLOGY CLUSTER

ARTIFICIAL INTELLIGENCE PATHWAY

Artificial Intelligence is an area of study that deals with the simulation of intelligent behavior in computers. Artificial Intelligence sits at the intersection and synergy of critical components from a variety of fields including programming, data science, mathematical reasoning, creative problem solving, ethics, and applied experiences. Students in the AI pathway will apply professional software development tools and processes to create functional, real-world applications of Artificial Intelligence using machine learning.

PATHWAY COURSES
- Foundations of Artificial Intelligence
- Artificial Intelligence Concepts
- Artificial Intelligence Applications

RECOMMENDED COURSES
- Any Advanced Math Course
- Any Business and Computer Science Course
- Any Engineering Course
- Any World Language

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES
TECHNICAL COLLEGES
- Certified Artificial Intelligence Engineer
- Google Data Analytics Certificate
- IBM Applied AI Professional Certificate
- IBM AI Engineering Professional Certificate
- IBM Data Science Professional Certificate
- Microsoft Certified: Azure AI Fundamentals

COLLEGES/UNIVERSITIES
- Analytics
- Artificial Intelligence & Innovation
- Cognitive Science
- Computational Mathematics
- Computational Science & Engineering
- Computer Science with AI Research
- Electrical/Mechanical Engineering
- Information and Data Sciences

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

TOP CAREER CHOICES

Machine Learning Engineers
Leverage big data tools and programming frameworks to create production-ready scalable data science models that can handle terabytes of realtime data.
$145,300+ average annual salary

Data Scientists
Collect and analyze data to glean insights using various technology tools, processes, and algorithms, extracting knowledge from data and identifying meaningful patterns.
$119,300+ average annual salary

Business Intelligence Developers
Process complex internal and external data to identify trends, typically responsible for designing, modeling, and maintaining complex data in highly accessible cloud-based data platforms.
$92,200+ average annual salary

ADDITIONAL CAREER CHOICES

Big Data Engineer/Architect

Computer Vision Engineer

Data Mining/Analysis

Natural Language Processing Engineer

Researcher/Research Scientist

Robotics Engineer

Software/AI Engineer

Software Architect

User Experience (UX) Designer/Developer

Source: GADOE Plans of Study
http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx

Forsyth County Schools
CAREER EXPLORATION
& Pathway Discovery
CTAE Career Pathways / Fine Arts Pathways

- Alliance Academy for Innovation
- Denmark High School
- East Forsyth High School
- Forsyth Central High School
- Forsyth Virtual Academy
- Lambert High School
- North Forsyth High School
- South Forsyth High School
- West Forsyth High School